

Competitive Direct Coupled Actuator Cross Reference

CROSS REFERENCE

BELIMO®

Belimo Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
LMB24-3-P5-T	45 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc	0-5 kOhm	—	95	ML6174A2002 + 200976A	70 lb-in. (8 Nm)	On/Off, Floating	24 Vac (±20%)	500 Ohm	—	95
							ML6174A2002 + 200976C		On/Off, Floating	24 Vac (±20%)	2 kOhm	—	95
LMB24-3-P10-T	45 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc	0-10 kOhm	—	95	ML6174A2002 + 200976A	70 lb-in. (8 Nm)	On/Off, Floating	24 Vac (±20%)	500 Ohm	—	95
							ML6174A2002 + 200976C		On/Off, Floating	24 Vac (±20%)	2 kOhm	—	95
LMB24-3	45 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	95	MN6105A1011	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
LMB24-3-T	45 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	95	MN6105A1011	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
LMB24-3-S	45 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc	—	1 (0-95)	95	MN6105A1201	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	2 (5, 85)	95
LMB24-SR	45 lb-in. (5 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	—	—	95	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
LMX24-SR	45 lb-in. (5 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	—	95 (selectable 35-150)	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
LMB24-SR-T	45 lb-in. (5 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	—	—	95	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
LMX24-SR-T	45 lb-in. (5 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	—	—	95 (selectable 35-150)	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
LMX24-MFT	45 lb-in. (5 Nm)	MFT	24 Vac/Vdc	Variable (0-10 Vdc)	—	150 (selectable 35-150)	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
LMX24-MFT	45 lb-in. (5 Nm)	MFT	24 Vac/Vdc	Variable (0-10 Vdc)	Add-On	150 (selectable 35-150)	MN7505A2209	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	2 (5, 85)	95
LMCB24-3	45 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	35	MN6105A1011	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
LMCB24-3-T	45 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	35	MN6105A1011	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
LMX24-3	45 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	95 (selectable 35-150)	MN6105A1011	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
LMX24-3-T	45 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	95 (selectable 35-150)	MN6105A1011	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
LMX120-3	45 lb-in. (5 Nm)	On/Off, Floating	100-240 Vac	—	—	95 (selectable 35-150)	—	—	—	—	—	—	—
LMCB24-SR	45 lb-in. (5 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	—	35	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
LMCB24-SR-T	45 lb-in. (5 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	—	—	35	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
LMX120-SR	45 lb-in. (5 Nm)	2-10 Vdc (4-20 mA)	100-240 Vac	2-10 Vdc	—	95 (selectable 35-150)	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.



COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Belimo Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
LMX24-MFT95	45 lb-in. (5 Nm)	0-135 Ohm	24 Vac/Vdc	Variable (0-10 Vdc)	—	150 (selectable 35-150)	MN7505A2001 + Q7002B1009	44 lb-in. (5 Nm)	0-135 OHM	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
LMX24-PC	45 lb-in. (5 Nm)	0-20 V Phase Cut	24 Vac/Vdc	2-10 Vdc	—	95	—	—	—	—	—	—	—
NMB24-3	90 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	95	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
NMCB24-3	90 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	45	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
NMX24-3	90 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	95 (selectable 35-150)	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
NMCB24-3-T	90 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	45	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
NMX24-3-T	90 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	95 (selectable 35-150)	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
NMX120-3	90 lb-in. (10 Nm)	On/Off, Floating	100-240 Vac	—	—	95 (selectable 35-150)	—	—	—	—	—	—	—
NMB24-SR	90 lb-in. (10 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	—	—	95	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
NMCB24-SR	90 lb-in. (10 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	—	45	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
NMX24-SR	90 lb-in. (10 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	—	95 (selectable 35-150)	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
NMCB24-SR-T	90 lb-in. (10 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	—	—	45	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
NMX24-SR-T	90 lb-in. (10 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	—	—	95 (selectable 35-150)	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
NMX120-SR	90 lb-in. (10 Nm)	2-10 Vdc (4-20 mA)	100-240 Vac	2-10 Vdc	—	95 (selectable 35-150)	—	—	—	—	—	—	—
NMX24-MFT	90 lb-in. (10 Nm)	MFT	24 Vac/Vdc	Variable (0-10 Vdc)	—	150 (selectable 35-150)	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
NMX24-MFT95	90 lb-in. (10 Nm)	0-135 Ohm	24 Vac/Vdc	Variable (0-10 Vdc)	—	150 (selectable 45-170)	MN7510A2001 + Q7002B1009	88 lb-in. (10 Nm)	0-135 OHM	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
NMX24-PC	90 lb-in. (10 Nm)	0-20 Vdc Phase Cut	24 Vac/Vdc	2-10 Vdc	—	95	—	—	—	—	—	—	—
NMQ24-MFT US	90 lb-in. (10 Nm)	MFT	24 Vac/Vdc	—	—	150	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
NMB24-3+S2A	90 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc	—	2 (adj 0-95)	95	MN6110A1201	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	2 (5, 85)	95
NMB24-SR + S2A	90 lb-in. (10 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	—	2 (adj 0-95)	95	MN7510A2209	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	2 (5, 85)	95
AMB24-3	180 lb-in. (20 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	95	MN6120A1002	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
AMX24-3	180 lb-in. (20 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	95 (selectable 95-300)	MN6120A1002	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
AMX24-3-T	180 lb-in. (20 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	95 (selectable 95-300)	MN6120A1002	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
AMB24-3-S	180 lb-in. (20 Nm)	On/Off, Floating	24 Vac/Vdc	—	1 (adj 0-95)	95	MN6120A1200	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	2 (5, 85)	95
AMX120-3	180 lb-in. (20 Nm)	On/Off, Floating	100-240 Vac	—	—	95 (selectable 95-300)	—	—	—	—	—	—	—
AMB24-SR	180 lb-in. (20 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	—	95	MN7220A2007	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
AMX24-SR	180 lb-in. (20 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	—	95 (selectable 95-300)	MN7220A2007	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
AMX24-SR-T	180 lb-in. (20 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	—	—	95 (selectable 95-300)	MN7220A2007	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
AMB24-SR+S2A	180 lb-in. (20 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	2 (adj 0-95)	95	MN7220A2205	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (5, 85)	95

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Belimo Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
AMX120-SR	180 lb-in. (20 Nm)	2-10 Vdc (4-20 mA)	100-240 Vac	2-10 Vdc	—	95 (selectable 95-300)	—	—	—	—	—	—	—
AMX24-MFT	180 lb-in. (20 Nm)	MFT	24 Vac/Vdc	Variable (0-10 Vdc)	—	150 (selectable 95-300)	MN7220A2007	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
AMX24-MFT95	180 lb-in. (20 Nm)	0-135 Ohm	24 Vac/Vdc	Variable (0-10 Vdc)	—	150 (selectable 95-300)	MN7220A2007+ Q7002B1009	175 lb-in. (20 Nm)	0-135 OHM	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
AMX24-PC	180 lb-in. (20 Nm)	0-20 Vdc Phase Cut	24 Vac/Vdc	2-10 Vdc	—	150 (selectable 95-300)	—	—	—	—	—	—	—
GMB24-3	360 lb-in. (40 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	150	MN6134A1003	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
GMX24-3	360 lb-in. (40 Nm)	On/Off, Floating	24 Vac/Vdc	—	—	150	MN6134A1003	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
GMX120-3	360 lb-in. (40 Nm)	On/Off, Floating	100-240 Vac	—	—	150	—	—	—	—	—	—	—
GMB24-SR	360 lb-in. (40 Nm)	2-10 Vd (4-20 mA)	24 Vac/Vdc	2-10 Vdc	—	150	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
GMX24-SR	360 lb-in. (40 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	—	150	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
GMX24-MFT	360 lb-in. (40 Nm)	MFT	24 Vac/Vdc	Variable (0-10 Vdc)	—	150 (selectable 70-300)	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
GMX24-MFT95	360 lb-in. (40 Nm)	0-135 Ohm	24 Vac/Vdc	Variable (0-10 Vdc)	—	150 (selectable 70-300)	MN7234A2008 + Q7002B1009	300 lb-in. (34 Nm)	0-135 OHM	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
GMX24-PC	360 lb-in. (40 Nm)	0-20 Vdc Phase Cut	24 Vac/Vdc	2-10 Vdc	—	150 (selectable 70-300)	—	—	—	—	—	—	—
LF24 US	35 lb-in. (5 Nm)	On/Off	24 Vac/Vdc	—	—	40-75	MS8105A1008	44 lb-in. (5 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
LF24-S US	35 lb-in. (5 Nm)	On/Off	24 Vac/Vdc	—	1 (adj 0-95)	40-75	MS8110A1206	88 lb-in. (10 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (7, 85)	45
							MS8105A1008+ SW2	44 lb-in. (5 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (Adjustable)	45
LF120 US	35 lb-in. (5 Nm)	On/Off	120 Vac	—	—	40-75	MS4105A1002	44 lb-in. (5 Nm)	On/Off	100-250 Vac	—	—	45
LF120-S US	35 lb-in. (5 Nm)	On/Off	120 Vac	—	1 (adj 0-95)	40-75	MS4110A1200	88 lb-in. (10 Nm)	On/Off	100-250 Vac	—	2 (7, 85)	45
							MS4105A1002+ SW2	44 lb-in. (5 Nm)	On/Off	100-250 Vac	—	2 (Adjustable)	45
LF230 US	35 lb-in. (5 Nm)	On/Off	230 Vac	—	—	40-75	MS4105A1002	44 lb-in. (5 Nm)	On/Off	100-250 Vac	—	—	45
LF230-S US	35 lb-in. (5 Nm)	On/Off	230 Vac	—	1 (adj 0-95)	40-75	MS4110A1200	88 lb-in. (10 Nm)	On/Off	100-250 Vac	—	2 (7, 85)	45
							MS4105A1002+ SW2	44 lb-in. (5 Nm)	On/Off	100-250 Vac	—	2 (Adjustable)	45
LF24-3 US	35 lb-in. (5 Nm)	Floating	24 Vac/Vdc	—	—	150	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
LF24-3-S US	35 lb-in. (5 Nm)	Floating	24 Vac/Vdc	—	1 (adj 0-95)	150	MS7510A2206	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
							MS7505A2008 + SW2	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	90
LFC24-3-R US	35 lb-in. (5 Nm)	Floating	24 Vac/Vdc	—	—	90	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
LFC24-3-S US	35 lb-in. (5 Nm)	Floating	24 Vac/Vdc	—	1 (adj 0-95)	90	MS7510A2206	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
							MS7505A2008 + SW2	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	90
LF24-SR US	35 lb-in. (5 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	—	150	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Belimo Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
LF24-SR-S US	35 lb-in. (5 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	1 (adj 0-95)	150	MS7510A2206	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
							MS7505A2008 + SW2	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	90
LF24-SR-E US	35 lb-in. (5 Nm)	2-10 Vdc, Built-in. minimum position	24 Vac/Vdc	2-10 Vdc	—	150	—	—	—	—	—	—	—
LF24-ECON-R03 US	35 lb-in. (5 Nm)	0-3 kOhm, type 10 thermistor	24 Vac/Vdc	2-10 Vdc	—	95	—	—	—	—	—	—	—
LF24-ECON-R10 US	35 lb-in. (5 Nm)	0-10 kOhm, type 7 thermistor	24 Vac/Vdc	2-10 Vdc	—	95	—	—	—	—	—	—	—
LF24-MFT US	35 lb-in. (5 Nm)	MFT	24 Vac/Vdc	2-10 Vdc	—	150	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
LF24-MFT-S US	35 lb-in. (5 Nm)	MFT	24 Vac/Vdc	2-10 Vdc	1 (adj 0-95)	150	MS7510H2209	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
							MS7505A2008 + SW2	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	90
LF24-MFT-20 US	35 lb-in. (5 Nm)	MFT	24 Vac/Vdc	2-10 Vdc	—	150	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
LF24-MFT-20-S US	35 lb-in. (5 Nm)	MFT	24 Vac/Vdc	2-10 Vdc	1 (adj 0-95)	150	MS7510H2209	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
							MS7505A2008 + SW2	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	90
NF24 US	60 lb-in. (7 Nm)	On/Off	24 Vac/Vdc	—	—	< 75	MS8110A1008	88 lb-in. (10 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
NF24-S US	60 lb-in. (7 Nm)	On/Off	24 Vac/Vdc	—	1 (adj 5-85)	< 75	MS8110A1206	88 lb-in. (10 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (7, 85)	45
NF24-S2 US	60 lb-in. (7 Nm)	On/Off	24 Vac/Vdc	—	2 (5, and adj 25-85)	< 75	MS8110A1206	88 lb-in. (10 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (7, 85)	45
NF120 US	60 lb-in. (7 Nm)	On/Off	120 Vac	—	—	< 75	MS4110A1002	88 lb-in. (10 Nm)	On/Off	100-250 Vac	—	—	45
NF120-S US	60 lb-in. (7 Nm)	On/Off	120 Vac	—	1 (adj 5-85)	< 75	MS4110A1200	88 lb-in. (10 Nm)	On/Off	100-250 Vac	—	2 (7, 85)	45
							MS4110A1002	88 lb-in. (10 Nm)	On/Off	100-250 Vac	—	—	45
—	—	—	—	—	—	—	MS4110A1200	88 lb-in. (10 Nm)	On/Off	100-250 Vac	—	2 (7, 85)	45
NF24-SR US	60 lb-in. (7 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	—	150	MS7510A2008	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
NF24-SR-S US	60 lb-in. (7 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	1 (adj 5-85)	150	MS7510A2206	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
NF24-MFT US	60 lb-in. (7 Nm)	MFT	24 Vac/Vdc	—	—	150	MS7510A2008	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
AF24 US	133 lb-in. (15 Nm)	On/Off	24 Vac/Vdc	—	—	150	MS8120A1007	175 lb-in. (20 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
AF24-S US	133 lb-in. (15 Nm)	On/Off	24 Vac/Vdc	—	2 (5, and adj 25-85)	150	MS8120A1205	175 lb-in. (20 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (7, 85)	45
AF120 US	133 lb-in. (15 Nm)	On/Off	120 Vac	—	—	150	MS4120A1001	175 lb-in. (20 Nm)	On/Off	100-250 Vac	—	—	45
AF120-S US	133 lb-in. (15 Nm)	On/Off	120 Vac	—	2 (5, and adj 25-85)	150	MS4120A1209	175 lb-in. (20 Nm)	On/Off	100-250 Vac	—	2 (7, 85)	45
AF230 US	133 lb-in. (15 Nm)	On/Off	230 Vac	—	—	150	MS4120A1001	175 lb-in. (20 Nm)	On/Off	100-250 Vac	—	—	45
AF230-S US	133 lb-in. (15 Nm)	On/Off	230 Vac	—	2 (5, and adj 25-85)	150	MS4120A1209	175 lb-in. (20 Nm)	On/Off	100-250 Vac	—	2 (7, 85)	45

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Belimo Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
AF24-SR US	133 lb-in. (15 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	2-10 Vdc	—	150	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
AF24-MFT US	133 lb-in. (15 Nm)	MFT	24 Vac/Vdc	2-10 Vdc	—	150	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
AF24-MFT-S US	133 lb-in. (15 Nm)	MFT	24 Vac/Vdc	2-10 Vdc	2 (5, and adj 25-85)	150	MS7520A2205	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
AF24-MFT-S US	133 lb-in. (15 Nm)	MFT	24 Vac/Vdc	2-10 Vdc	2 (5, and adj 25-85)	150	MS7520H2208	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
AF24-MFT95 US	133 lb-in. (15 Nm)	0-135 Ohm	24 Vac/Vdc	—	—	150	MS7520A2007 + Q7002B1009	175 lb-in. (20 Nm)	0-135 ohm	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
TF24 US	18 lb-in. (2 Nm)	On/Off	24 Vac/Vdc	—	—	<75	MS8105A1008	44 lb-in. (5 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
TF24-S US	18 lb-in. (2 Nm)	On/Off	24 Vac/Vdc	—	1 (adj 0-95)	<75	MS8105A1008+ SW2	44 lb-in. (5 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (Adjustable)	45
TF120 US	18 lb-in. (2 Nm)	On/Off	100-240 Vac	—	—	<75	MS4105A1002	44 lb-in. (5 Nm)	On/Off	100-250 Vac	—	—	45
TF120-S US	18 lb-in. (2 Nm)	On/Off	100-240 Vac	—	1 (adj 0-95)	<75	MS4105A1002+ SW2	44 lb-in. (5 Nm)	On/Off	100-250 Vac	—	2 (Adjustable)	45
TF24-SR US	18 lb-in. (2 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	—	—	95	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
TF24-SR-S US	18 lb-in. (2 Nm)	2-10 Vdc (4-20 mA)	24 Vac/Vdc	—	1 (adj 0-95)	95	MS7505A2008 + SW2	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	90
TF24-3 US	18 lb-in. (2 Nm)	Floating	24 Vac/Vdc	—	—	95	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
TF24-3-S US	18 lb-in. (2 Nm)	Floating	24 Vac/Vdc	—	1 (adj 0-95)	95	MS7505A2008 + SW2	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	90

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE



Johnson Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
M9104-AGA-2N	35 lb-in. (4 Nm)	Floating	20 to 30 Vac at 50/60 Hz	—	—	90 / 108 (at 60 / 50 Hz)	MN6105A1011	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
M9104-AGS-2N	35 lb-in. (4 Nm)	Floating	20 to 30 Vac at 50/60 Hz	—	—	90 / 108 (at 60 / 50 Hz)	MN6105A1011	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
M9106-IGA-2	53 lb-in. (6 Nm) and 35 lb-in. (4 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	—	Selectable: 60, 90, 120, 330, or 660 (at 60 Hz), 72, 108, 144, 396, or 792 (at 50 Hz).	MN6105A1011	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
							MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
M9106-IGC-2	53 lb-in. (6 Nm) and 35 lb-in. (4 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	2	Selectable: 60, 90, 120, 330, or 660 (at 60 Hz), 72, 108, 144, 396, or 792 (at 50 Hz).	MN6105A1201	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	2 (5, 85)	95
							MN6110A1201	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	2 (5, 85)	95
—	—	—	—	—	—	—	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
—	—	—	—	—	—	—	MN7505A2209	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	2 (5, 85)	95
M9106-AGA-2	53 lb-in. (6 Nm)	Floating	20 to 30 Vac at 50/60 Hz	—	—	60 / 72 (at 60 / 50 Hz)	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
M9106-AGA-2N01	53 lb-in. (6 Nm)	Floating	20 to 30 Vac at 50/60 Hz	—	—	60 / 72 (at 60 / 50 Hz)	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
M9106-AGA-2N02	53 lb-in. (6 Nm)	Floating	20 to 30 Vac at 50/60 Hz	—	—	120 / 144 (at 60 / 50 Hz)	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
M9106-AGC-2	53 lb-in. (6 Nm)	Floating	20 to 30 Vac at 50/60 Hz	—	2	60 / 72 (at 60 / 50 Hz)	MN6110A1201	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	2 (5, 85)	95
M9106-AGF-2	53 lb-in. (6 Nm)	Floating	20 to 30 Vac at 50/60 Hz	0-10 kOhm	—	60 / 72 (at 60 / 50 Hz)	ML6174B2019 + 200976C	70 lb-in. (8 Nm)	On/Off, Floating	24 Vac	0-2 kOhm	—	95
M9106-AGS-2N02	53 lb-in. (6 Nm)	Floating	20 to 30 Vac at 50/60 Hz	—	—	120 / 144 (at 60 / 50 Hz)	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
M9106-GGA-2	53 lb-in. (6 Nm)	(0) 2-10 Vdc, (0) 4 to 20 mA	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc). Corresponds to span selection.	—	60 / 72 (at 60 / 50 Hz)	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
M9106-GGC-2	53 lb-in. (6 Nm)	(0) 2-10 Vdc, (0) 4 to 20 mA	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc). Corresponds to span selection.	2	60 / 72 (at 60 / 50 Hz)	MN7510A2209	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	2 (5, 85)	95
M9108-AGA-2	70 lb-in. (8 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	—	25-50 for 0-70 lb-in. (0-8 Nm), 30 at 50% load.	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
M9108-AGC-2	70 lb-in. (8 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	2	25-50 for 0-70 lb-in. (0-8 Nm), 30 at 50% load.	MN6110A1201	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	2 (5, 85)	95
M9108-AGD-2	70 lb-in. (8 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	0-135 Ohm	—	25-50 for 0-70 lb-in. (0-8 Nm), 30 at 50% load.	ML6174B2019 + 200976A	70 lb-in. (8 Nm)	On/Off, Floating	24 Vac	0-500 Ohm	—	95
M9108-AGE-2	70 lb-in. (8 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	0-1 kOhm	—	25-50 for 0-70 lb-in. (0-8 Nm), 30 at 50% load.	ML6174B2019 + 200976C	70 lb-in. (8 Nm)	On/Off, Floating	24 Vac	0-2 kOhm	—	95
M9108-GGA-2	70 lb-in. (8 Nm)	0-20 Vdc (selectable zero and span), (0) 4 to 20 mA, Reversible.	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc). Corresponds to span selection.	—	25-50 for 0-70 lb-in. (0-8 Nm), 30 at 50% load.	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
M9108-GGC-2	70 lb-in. (8 Nm)	0-20 Vdc (selectable zero and span), (0) 4 to 20 mA, Reversible.	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc). Corresponds to span selection.	2	25-50 for 0-70 lb-in. (0-8 Nm), 30 at 50% load.	MN7510A2209	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	2 (5, 85)	95

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Johnson Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
M9108-HGA-2	70 lb-in. (8 Nm)	0-20 Vdc (adjustable zero and span), (0) 4 to 20 mA, Reversible.	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc). Corresponds to span selection.	—	25-50 for 0-70 lb-in. (0-8 Nm), 30 at 50% load.	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
M9108-HGC-2	70 lb-in. (8 Nm)	0-20 Vdc (adjustable zero and span), (0) 4 to 20 mA, Reversible.	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc). Corresponds to span selection.	2	25-50 for 0-70 lb-in. (0-8 Nm), 30 at 50% load.	MN7510A2209	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	2 (5, 85)	95
M9108-JGA-2	70 lb-in. (8 Nm)	100-10 kOhms. Reversible.	20 to 30 Vac at 50/60 Hz	0-10 Vdc	—	25-50 for 0-70 lb-in. (0-8 Nm), 30 at 50% load.	—	—	—	—	—	—	—
M9108-JGC-2	70 lb-in. (8 Nm)	100-10 kOhms. Reversible.	20 to 30 Vac at 50/60 Hz	0-10 Vdc	2	25-50 for 0-70 lb-in. (0-8 Nm), 30 at 50% load.	—	—	—	—	—	—	—
M9109-AGA-2	80 lb-in. (9 Nm)	Floating	20 to 30 Vac at 50/60 Hz	—	—	60 / 72 (at 60 / 50 Hz)	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
M9109-AGC-2	80 lb-in. (9 Nm)	Floating	20 to 30 Vac at 50/60 Hz	—	2	60 / 72 (at 60 / 50 Hz)	MN6110A1201	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	2 (5, 85)	95
M9109-GGA-2	80 lb-in. (9 Nm)	(0) 2-10 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc). Corresponds to span selection.	—	60 / 72 (at 60 / 50 Hz)	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
M9109-GGC-2	80 lb-in. (9 Nm)	(0) 2-10 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc). Corresponds to span selection.	2	60 / 72 (at 60 / 50 Hz)	MN7510A2209	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	2 (5, 85)	95
M9116-AGA-2	140 lb-in. (16 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	—	70-115 for 0-140 lb-in. (0-16 Nm). 80 at 50% load.	MN6120A1002	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
M9116-AGC-2	140 lb-in. (16 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	2	70-115 for 0-140 lb-in. (0-16 Nm). 80 at 50% load.	MN6120A1200	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	2 (5, 85)	95
M9116-AGD-2	140 lb-in. (16 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	0-135 Ohm	—	70-115 for 0-140 lb-in. (0-16 Nm). 80 at 50% load.	MN6120A1002	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
M9116-AGE-2	140 lb-in. (16 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	0-1 kOhm	—	70-115 for 0-140 lb-in. (0-16 Nm). 80 at 50% load.	MN6120A1002	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
M9116-GGA-2	140 lb-in. (16 Nm)	(0) 2-10 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc). Corresponds to span selection.	—	70-115 for 0-140 lb-in. (0-16 Nm). 80 at 50% load.	MN7220A2007	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
M9116-GGC-2	140 lb-in. (16 Nm)	(0) 2-10 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc). Corresponds to span selection.	2	70-115 for 0-140 lb-in. (0-16 Nm). 80 at 50% load.	MN7220A2205	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (5, 85)	95
M9116-HGA-2	140 lb-in. (16 Nm) & 280 lb-in. (32 Nm)	(0) 2-10 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc). Corresponds to span selection.	—	70-115 for 0-140 lb-in. (0-16 Nm). 80 at 50% load.	MN7220A2007	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
							MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
M9116-HGC-2	140 lb-in. (16 Nm) & 280 lb-in. (32 Nm)	(0) 2-10 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc). Corresponds to span selection.	2	70-115 for 0-140 lb-in. (0-16 Nm). 80 at 50% load.	MN7220A2205	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (5, 85)	95
							MN7234A2008 + SW2	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	95
M9116-JGA-2	140 lb-in. (16 Nm)	100-10 kOhms, Reversible	20 to 30 Vac at 50/60 Hz	0-10 Vdc for 90	—	70-115 for 0-140 lb-in. (0-16 Nm). 80 at 50% load.	—	—	—	—	—	—	—
M9116-JGC-2	140 lb-in. (16 Nm)	100-10 kOhms, Reversible	20 to 30 Vac at 50/60 Hz	0-10 Vdc for 90	2	70-115 for 0-140 lb-in. (0-16 Nm). 80 at 50% load.	—	—	—	—	—	—	—

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Johnson Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
M9124-AGA-2	210 lb-in. (24 Nm) & 420 lb-in. (48 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	—	115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.	MN6134A1003	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
							MN6120A1002 + MN6120A1002	350 lb-in. (40 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
M9124-AGC-2	210 lb-in. (24 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	2	115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.	MN6134A1003 + SW2	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	2 (Adjustable)	95
M9124-AGD-2	210 lb-in. (24 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	0-1 35 Ohm	—	115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.	MN6134A1003	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
M9124-AGE-2	210 lb-in. (24 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	0-1 kOhm	—	115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.	MN6134A1003	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
M9124-GGA-2	210 lb-in. (24 Nm) & 420 lb-in. (48 Nm)	(0) 2-10 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span selection.	—	115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
							MN7220A2007 + MN7220A2007	350 lb-in. (40 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
M9124-GGC-2	210 lb-in. (24 Nm) & 420 lb-in. (48 Nm)	(0) 2-10 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span selection.	2	115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.	MN7234A2008 + SW2	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	95
							MN7220A2205 + MN7220A2205	350 lb-in. (40 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2+2 (5, 85)	95
M9124-HGA-2	210 lb-in. (24 Nm) & 420 lb-in. (48 Nm)	(0) 2-10 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span selection.	—	115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
							MN7220A2007 + MN7220A2007	350 lb-in. (40 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
M9124-HGC-2	210 lb-in. (24 Nm) & 420 lb-in. (48 Nm)	(0) 2-10 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span selection.	2	115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.	MN7234A2008 + SW2	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	95
							MN7220A2205 + MN7220A2205	350 lb-in. (40 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2+2 (5, 85)	95
M9124-JGA-2	210 lb-in. (24 Nm)	100-10 kOhms, Reversible	20 to 30 Vac at 50/60 Hz	0-10 Vdc for 90 (1 mA at 10 Vdc)	—	115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.	—	—	—	—	—	—	—
M9124-JGC-2	210 lb-in. (24 Nm)	100-10 kOhms, Reversible	20 to 30 Vac at 50/60 Hz	0-10 Vdc for 90 (1 mA at 10 Vdc)	2	115-175 for 0-210 lb-in. (0-24 Nm), 130 at 50% load.	—	—	—	—	—	—	—
M9132-AGA-2	280 lb-in. (32 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	—	115-205 for 0-280 lb-in. (0-32 Nm), 140 at 50% load.	MN6134A1003	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
M9132-AGC-2	280 lb-in. (32 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	2	115-205 for 0-280 lb-in. (0-32 Nm), 140 at 50% load.	MN6134A1003 + SW2	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	2 (Adjustable)	95
M9132-AGE-2	280 lb-in. (32 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	0-1 kOhm	—	115-205 for 0-280 lb-in. (0-32 Nm), 140 at 50% load.	MN6134A1003	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
M9132-GGA-2	280 lb-in. (32 Nm) & 560 lb-in. (64 Nm)	(0) 2-10 Vdc, (0) 4 to 20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span and stroke limits	—	115-205 for 0-280 lb-in. (0-32 Nm), 140 at 50% load.	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
							MN7234A2008 + MN7234A2008	600 lb-in. (68 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Johnson Model	Torque (lb.-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb.-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
M9132-GGC-2	280 lb.-in. (32 Nm) & 560 lb.-in. (64 Nm)	(0) 2-10 Vdc, (0) 4 to 20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span and stroke limits	2	115-205 for 0-280 lb.-in. (0-32 Nm), 140 at 50% load.	MN7234A2008 + SW2	300 lb.-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	95
							MN7234A2008 + MN7234A2008 + SW2	600 lb.-in. (68 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	95
—	—	—	—	—	—	—	MS4105A1002	44 lb.-in. (5 Nm)	On/Off	100-250 Vac	—	—	45
—	—	—	—	—	—	—	MS7505A2008	44 lb.-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
—	—	—	—	—	—	—	MS8105A1008	44 lb.-in. (5 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
M9206-BGA-2S	53 lb.-in. (6 Nm)	On/Off	20 to 30 Vac at 50/60 Hz	—	—	10-40 for 0-53 lb.-in. (0-6 Nm) 25 at 50% load. Spring return < 70.	MS8110A1008	88 lb.-in. (10 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
M9206-BGB-2S	53 lb.-in. (6 Nm)	On/Off	20 to 30 Vac at 50/60 Hz	—	1	10-40 for 0-53 lb.-in. (0-6 Nm) 25 at 50% load. Spring return < 70.	MS8110A1206	88 lb.-in. (10 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (7, 85)	45
M9206-BAA-2S	53 lb.-in. (6 Nm)	On/Off	102 to 132 Vac at 60 Hz	—	—	10-40 for 0-53 lb.-in. (0-6 Nm) 25 at 50% load. Spring return < 70.	MS4110A1002	88 lb.-in. (10 Nm)	On/Off	100-250 Vac	—	—	45
M9206-BAB-2S	53 lb.-in. (6 Nm)	On/Off	102 to 132 Vac at 60 Hz	—	1	10-40 for 0-53 lb.-in. (0-6 Nm) 25 at 50% load. Spring return < 70.	MS4110A1200	88 lb.-in. (10 Nm)	On/Off	100-250 Vac	—	2 (7, 85)	45
M9206-AGA-2S	53 lb.-in. (6 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	—	90	MS7510A2008	88 lb.-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
M9206-AGA-2MP	53 lb.-in. (6 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	—	90	MS7510A2008	88 lb.-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
M9206-AGC-2	53 lb.-in. (6 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	2	90	MS7510A2206	88 lb.-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
M9206-AGC-2MP	53 lb.-in. (6 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz	—	2	90	MS7510A2206	88 lb.-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
M9206-GGA-2	53 lb.-in. (6 Nm)	(0) 2-10 Vdc, 6-9 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span and stroke limits	—	90	MS7510A2008	88 lb.-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
M9206-GGA-2MP	53 lb.-in. (6 Nm)	(0) 2-10 Vdc, 6-9 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span and stroke limits	—	90	MS7510A2008	88 lb.-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
M9206-GGC-2	53 lb.-in. (6 Nm)	(0) 2-10 Vdc, 6-9 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span and stroke limits	2	90	MS7510A2206	88 lb.-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
M9206-GGC-2MP	53 lb.-in. (6 Nm)	(0) 2-10 Vdc, 6-9 Vdc, (0) 4-20 mA, Reversible	20 to 30 Vac at 50/60 Hz	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span and stroke limits	2	90	MS7510A2206	88 lb.-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
—	—	—	—	—	—	—	MS7510H2209	88 lb.-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
M9216-BAA-2	140 lb.-in. (16 Nm) & 280 lb.-in. (32 Nm)	On/Off	120 Vac	—	—	—	MS4120A1001	175 lb.-in. (20 Nm)	On/Off	100-250 Vac	—	—	45
							MS4120A1001 + MS4120A1001	350 lb.-in. (40 Nm)	On/Off	100-250 Vac	—	—	45
M9216-BAC-2	140 lb.-in. (16 Nm) & 280 lb.-in. (32 Nm)	On/Off	120 Vac	—	2	—	MS4120A1209	175 lb.-in. (20 Nm)	On/Off	100-250 Vac	—	2 (7, 85)	45
							MS4120A1209 + MS4120A1209	350 lb.-in. (40 Nm)	On/Off	100-250 Vac	—	2+2 (7, 85)	45

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Johnson Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
M9216-BGA-2	140 lb-in. (16 Nm) & 280 lb-in. (32 Nm)	On/Off	20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA	—	—	70-130 for 0-140 lb-in. (0-16 Nm), 90 at 50% load. Spring return < 15.	MS8120A1007	175 lb-in. (20 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
							MS8120A1007 + MS8120A1007	350 lb-in. (40 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
M9216-BGC-2	140 lb-in. (16 Nm) & 280 lb-in. (32 Nm)	On/Off	20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA	—	2	70-130 for 0-140 lb-in. (0-16 Nm), 90 at 50% load. Spring return < 15.	MS8120A1205	175 lb-in. (20 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (7, 85)	45
							MS8120A1205 + MS8120A1205	350 lb-in. (40 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2+2 (7, 85)	45
M9216-AGA-2	140 lb-in. (16 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA	—	—	70-130 for 0-140 lb-in. (0-16 Nm), 90 at 50% load. Spring return < 15.	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
M9216-AGC-2	140 lb-in. (16 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA	—	2	70-130 for 0-140 lb-in. (0-16 Nm), 90 at 50% load. Spring return < 15.	MS7520A2205	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
M9216-AGD-2	140 lb-in. (16 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA	0-135 Ohms	—	70-130 for 0-140 lb-in. (0-16 Nm), 90 at 50% load. Spring return < 15.	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
M9216-AGE-2	140 lb-in. (16 Nm)	On/Off, Floating	20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA	0-1 kOhms	—	70-130 for 0-140 lb-in. (0-16 Nm), 90 at 50% load. Spring return < 15.	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
M9216-GGA-2	140 lb-in. (16 Nm) & 280 lb-in. (32 Nm)	0-10 Vdc, 0-20 mA, Reversible	20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span and stroke limits	—	70-130 for 0-140 lb-in. (0-16 Nm), 90 at 50% load. Spring return < 15.	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
							MS7520A2007 + MS7520A2007	350 lb-in. (40 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
M9216-GGC-2	140 lb-in. (16 Nm) & 280 lb-in. (32 Nm)	0-10 Vdc, 0-20 mA, Reversible	20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span and stroke limits	2	70-130 for 0-140 lb-in. (0-16 Nm), 90 at 50% load. Spring return < 15.	MS7520A2205	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
							MS7520A2205 + MS7520A2205	350 lb-in. (40 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2+2 (7, 85)	90
M9216-HGA-2	140 lb-in. (16 Nm) & 280 lb-in. (32 Nm)	0-10 Vdc, 0-20 mA, Reversible	20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span and stroke limits	—	70-130 for 0-140 lb-in. (0-16 Nm), 90 at 50% load. Spring return < 15.	MS7520H2208	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
							MS7520H2208 + MS7520H2208	350 lb-in. (40 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2+2 (7, 85)	90
M9216-HGC-2	140 lb-in. (16 Nm) & 280 lb-in. (32 Nm)	100-10 kOhm Reversible	20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA	(0) 2-10 Vdc for 90 (1 mA at 10 Vdc) Corresponds to span and stroke limits	2	70-130 for 0-140 lb-in. (0-16 Nm), 90 at 50% load. Spring return < 15.	MS7520H2208	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
							MS7520H2208 + MS7520H2208	350 lb-in. (40 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2+2 (7, 85)	90
M9216-JGA-2	140 lb-in. (16 Nm)	100-10 kOhm Reversible	20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA	0-10 Vdc for 90 (1 mA at 10 Vdc)	—	70-130 for 0-140 lb-in. (0-16 Nm), 90 at 50% load. Spring return < 15.	—	—	—	—	—	—	—
M9216-JGC-2	140 lb-in. (16 Nm)	100-10 kOhm Reversible	20 to 30 Vac at 50/60 Hz or 24 Vdc, 420 mA	0-10 Vdc for 90 (1 mA at 10 Vdc)	2	70-130 for 0-140 lb-in. (0-16 Nm), 90 at 50% load. Spring return < 15.	—	—	—	—	—	—	—

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.



Invensys Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
MA40-7043	35 lb-in. (4 Nm)	On/Off	24 Vac ±20% 22-30 Vdc	—	-	< 50	MS8105A1008	44 lb-in. (5 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
MA40-7043-501	35 lb-in. (4 Nm)	On/Off	24 Vac ±20% 22-30 Vdc	—	1	< 50	MS8105A1008 + SW2	44 lb-in. (5 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (Adjustable)	45
MF40-7043	35 lb-in. (4 Nm)	Floating	24 Vac ±20% 22-30 Vdc	—	-	< 130	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MF40-7043-501	35 lb-in. (4 Nm)	Floating	24 Vac ±20% 22-30 Vdc	—	1	< 130	MS7505A2008 + SW2	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	90
MS40-7043	35 lb-in. (4 Nm)	2-10 Vdc 4-20 mA	24 Vac ±20% 22-30 Vdc	2-10 Vdc	-	< 130	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS40-7043-501	35 lb-in. (4 Nm)	2-10 Vdc 4-20 mA	24 Vac ±20% 22-30 Vdc	2-10 Vdc	1	< 130	MS7505A2008 + SW2	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	90
MA41-7073	60 lb-in. (7 Nm)	On/Off	24 Vac ±20% 22-30 Vdc	—	-	< 80	MS8110A1008	88 lb-in. (10 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
MA41-7073-502	60 lb-in. (7 Nm)	On/Off	24 Vac ±20% 22-30 Vdc	—	2	< 80	MS8110A1206	88 lb-in. (10 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (7, 85)	45
MF41-7073	60 lb-in. (7 Nm)	Floating	24 Vac ±20% 22-30 Vdc	—	-	< 195	MS7510A2008	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MF41-7073-502	60 lb-in. (7 Nm)	Floating	24 Vac ±20% 22-30 Vdc	—	2	< 195	MS7510A2206	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
MS41-7073	60 lb-in. (7 Nm)	2-10 Vdc 4-20 mA	24 Vac ±20% 22-30 Vdc	2-10 Vdc	-	< 195	MS7510A2008	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS41-7073-502	60 lb-in. (7 Nm)	2-10 Vdc 4-20 mA	24 Vac ±20% 22-30 Vdc	2-10 Vdc	2	< 195	MS7510A2206	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
MA41-7153	133 lb-in. (15 Nm)	On/Off	24 Vac ±20% 22-30 Vdc	—	-	< 190	MS8120A1007	175 lb-in. (20 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
MA41-7153-502	133 lb-in. (15 Nm)	On/Off	24 Vac ±20% 22-30 Vdc	—	2	< 190	MS8120A1205	175 lb-in. (20 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (7, 85)	45
MF41-7153	133 lb-in. (15 Nm)	Floating	24 Vac ±20% 22-30 Vdc	—	-	< 190	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MF41-7153-502	133 lb-in. (15 Nm)	Floating	24 Vac ±20% 22-30 Vdc	—	2	< 190	MS7520A2205	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
MS41-7153	133 lb-in. (15 Nm)	2-10 Vdc	24 Vac ±20% 22-30 Vdc	2-10 Vdc	-	< 190	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS41-7153-502	133 lb-in. (15 Nm)	2-10 Vdc	24 Vac ±20% 22-30 Vdc	2-10 Vdc	2	< 190	MS7520A2205	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
MA40-7170	150 lb-in. (17 Nm)	On/Off	120 Vac ±10%	—	-	< 145	MS4120A1001	175 lb-in. (20 Nm)	On/Off	100-250 Vac	—	—	45
MA40-7173	150 lb-in. (17 Nm)	On/Off	24 Vac ±20%	—	-	< 145	MS8120A1007	175 lb-in. (20 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
MF40-7173	150 lb-in. (17 Nm)	Floating	24 Vac ±20%	—	-	< 145	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS40-7170	150 lb-in. (17 Nm)	2-10 Vdc 4-20 mA	120 Vac ±10%	—	-	< 145	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS40-7173	150 lb-in. (17 Nm)	2-10 Vdc 4-20 mA	24 Vac ±20%	—	-	< 145	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MA4D-7033-100	30 lb-in. (3.4 Nm)	On/Off	24 Vac ±20% 20-30 Vdc	—	-	< 56	MS8105A1008	44 lb-in. (5 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Invensys Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
MA4D-8033-100	30 lb-in. (3.4 Nm)	On/Off	24 Vac ±20% 20-30 Vdc	—	-	< 56	MS8105A1008	44 lb-in. (5 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
MF4D-7033-100	30 lb-in. (3.4 Nm)	Floating	24 Vac ±20% 20-30 Vdc	2-10 Vdc	-	< 85	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MF4D-8033-100	30 lb-in. (3.4 Nm)	Floating	24 Vac ±20% 20-30 Vdc	2-10 Vdc	-	< 85	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS4D-7033-100	30 lb-in. (3.4 Nm)	(0) 2-10 Vdc, 4-20 mA	24 Vac ±20% 20-30 Vdc	2-10 Vdc	-	< 85	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS4D-7033-150	30 lb-in. (3.4 Nm)	(0) 2-10 Vdc, 4-20 mA	24 Vac ±20% 20-30 Vdc	2-10 Vdc	-	< 85	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS4D-7033-160	30 lb-in. (3.4 Nm)	(0) 2-10 Vdc, 4-20 mA	24 Vac ±20% 22-30 Vdc	2-10 Vdc	—	< 85	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS4D-8033-100	30 lb-in. (3.4 Nm)	(0) 2-10 Vdc, 4-20 mA	24 Vac ±20% 22-30 Vdc	2-10 Vdc	—	< 85	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS4D-8033-150	30 lb-in. (3.4 Nm)	(0) 2-10 Vdc, 4-20 mA	24 Vac ±20% 22-30 Vdc	2-10 Vdc	—	< 85	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS4D-8033-160	30 lb-in. (3.4 Nm)	(0) 2-10 Vdc, 4-20 mA	24 Vac ±20% 22-30 Vdc	2-10 Vdc	—	< 85	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS50-E2301	150 lb-in. (17 Nm)	1-5 Vdc 4-20 mA	24 Vac ±10%	—	—	145	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS50-E2001	150 lb-in. (17 Nm)	1-5 Vdc 4-20 mA	120 Vac ±10%	—	—	145	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
MS50-E2101	150 lb-in. (17 Nm)	1-5 Vdc 4-20 mA	240 Vac ±10%	—	—	145	MS7520A2007	175 lb-in. (20 Nm)	On/Off	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
—	—	—	—	—	—	—	MS4105A1002	44 lb-in. (5 Nm)	On/Off	100-250 Vac	—	—	45
—	—	—	—	—	—	—	MS4110A1002	88 lb-in. (10 Nm)	On/Off	100-250 Vac	—	—	45
—	—	—	—	—	—	—	MS4110A1200	88 lb-in. (10 Nm)	On/Off	100-250 Vac	—	2 (7, 85)	45
—	—	—	—	—	—	—	MS7510H2209	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
—	—	—	—	—	—	—	MS4120A1209	175 lb-in. (20 Nm)	On/Off	100-250 Vac	—	2 (7, 85)	45
—	—	—	—	—	—	—	MS7520H2208	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
MF41-6043	30 lb-in. (3.4 Nm)	Floating	24 Vac +20%-15%	—	—	< 90	MN6105A1011	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
MF41-6043-510	30 lb-in. (3.4 Nm)	Floating	24 Vac +20%-15%	0-1kOhm	—	< 90	—	—	—	—	—	—	—
MF41-6043-502	30 lb-in. (3.4 Nm)	Floating	24 Vac +20%-15%	—	2	< 90	MN6105A1201	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	2 (7, 85)	95
MS41-6043	30 lb-in. (3.4 Nm)	0-10 Vdc	24 Vac +20%-15%	0-10 Vdc	-	< 90	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
MS41-6043-520	30 lb-in. (3.4 Nm)	0-10 Vdc (adjustable)	24 Vac +20%-15%	0-10 Vdc	-	< 90	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
MS41-6043-522	30 lb-in. (3.4 Nm)	0-10 Vdc (adjustable)	24 Vac +20%-15%	0-10 Vdc	2	< 90	MN7505A2209	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	2 (5, 85)	95
MS41-6043-502	30 lb-in. (3.4 Nm)	0-10 Vdc	24 Vac +20%-15%	0-10 Vdc	2	< 90	MN7505A2209	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	2 (5, 85)	95
MF41-6083	70 lb-in. (8 Nm)	Floating	24 Vac +20%-15%	—	-	< 125	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
MF41-6083-510	70 lb-in. (8 Nm)	Floating	24 Vac +20%-15%	0-1kOhm	-	< 125	—	—	—	—	—	—	—
MF41-6083-502	70 lb-in. (8 Nm)	Floating	24 Vac +20%-15%	—	2	< 125	MN6110A1201	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	2 (5, 85)	95

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Invensys Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
MS41-6083	70 lb-in. (8 Nm)	0-10 Vdc	24 Vac +20%-15%	0-10 Vdc	-	< 125	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
MS41-6083-520	70 lb-in. (8 Nm)	0-10 Vdc (adjustable)	24 Vac +20%-15%	0-10 Vdc	-	< 125	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
MS41-6083-522	70 lb-in. (8 Nm)	0-10 Vdc (adjustable)	24 Vac +20%-15%	0-10 Vdc	2	< 125	MN7510A2209	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	2 (5, 85)	95
MS41-6083-502	70 lb-in. (8 Nm)	0-10 Vdc	24 Vac +20%-15%	0-10 Vdc	2	< 125	MN7510A2209	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	2 (5, 85)	95
MF41-6153	133 lb-in. (15 Nm)	Floating	24 Vac +20%-15%	—	-	< 125	MN6120A1002	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
MS41-6153	133 lb-in. (15 Nm)	0-10 Vdc	24 Vac +20%-15%	0-10 Vdc	-	< 125	MN7220A2007	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
MS41-6153-502	133 lb-in. (15 Nm)	0-10 Vdc	24 Vac +20%-15%	0-10 Vdc	2	< 125	MN7220A2205	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (5, 85)	95
MF41-6343	300 lb-in. (34 Nm)	Floating	24 Vac ±20%	—	-	< 145	MN6134A1003	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
MS41-6340	300 lb-in. (34 Nm)	2-10 Vdc 4-20 mA	120 Vac ±10%	—	-	< 145	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
MS41-6343	300 lb-in. (34 Nm)	2-10 Vdc 4-20 mA	24 Vac ±20%	—	-	< 145	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
MS4D-6043-100	35 lb-in. (4 Nm)	2-10 Vdc	24 Vac ±20% 20-30 Vdc	2-10 Vdc	-	< 85	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
MS4D-6043-150	35 lb-in. (4 Nm)	0-10 Vdc	24 Vac ±20% 20-30 Vdc	2-10 Vdc	-	< 85	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
MS4D-6043-160	35 lb-in. (4 Nm)	4-20 mA	24 Vac ±20% 20-30 Vdc	2-10 Vdc	-	< 85	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
MS4D-6083-100	70 lb-in. (8 Nm)	2-10 Vdc	24 Vac ±20% 20-30 Vdc	2-10 Vdc	-	< 85	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
MS4D-6083-150	70 lb-in. (8 Nm)	0-10 Vdc	24 Vac ±20% 20-30 Vdc	2-10 Vdc	-	< 85	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
MS4D-6083-160	70 lb-in. (8 Nm)	4-20 mA	24 Vac ±20% 20-30 Vdc	2-10 Vdc	-	< 85	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
MF4E-60430-100	35 lb-in. (4 Nm)	Floating	24 Vac +20%-15%	—	-	90	MN6105A1011	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
MF4E-60830-100	70 lb-in. (8 Nm)	Floating	24 Vac +20%-15%	—	-	90	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
MS50-H2301	300 lb-in. (34 Nm)	1-5 Vdc 4-20 mA	24 Vac ±10%	—	-	145	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
MS50-H2001	300 lb-in. (34 Nm)	1-5 Vdc 4-20 mA	120 Vac ±10%	—	-	145	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
MS50-H2101	300 lb-in. (34 Nm)	1-5 Vdc 4-20 mA	240 Vac ±10%	—	-	145	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
—	—	—	—	—	—	—	MN6120A1200	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	2 (5, 85)	95

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

SIEMENS

Siemens Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
—	—	—	—	—	—	—	MN7505A2209	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc -15%/+20%	(0) 2-10 Vdc	2 (5, 85)	95
GDE131.1U	44 lb-in. (5 Nm)	Floating	24 Vac	—	—	90	MN6105A1011	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
GDE131.1P	44 lb-in. (5 Nm)	Floating	24 Vac	—	—	90							
GDE131.1T	44 lb-in. (5 Nm)	Floating	24 Vac	—	—	90							
GDE161.1P	44 lb-in. (5 Nm)	0-10 Vdc	24 Vac	0-1kOhm	—	90	MN7505A2001	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
GDE161.1T	44 lb-in. (5 Nm)	0-10 Vdc	24 Vac	0-1kOhm	—	90							
GDE132.1P	44 lb-in. (5 Nm)	Floating	24 Vac	0-1kOhm	—	90	ML6174A2002 + 200976C	70 lb-in. (8 Nm)	On/Off, Floating	24 Vac	0-2 kOhm	—	95
GDE136.1P	44 lb-in. (5 Nm)	Floating	24 Vac	—	2	90	MN6105A1201	44 lb-in. (5 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	2 (5, 85)	95
GDE163.1P	44 lb-in. (5 Nm)	0-10 Vdc	24 Vac	0-1kOhm	—	90	—	—	—	—	—	—	—
GDE164.1P	44 lb-in. (5 Nm)	0-10 Vdc	24 Vac	0-1kOhm	2	90	—	—	—	—	—	—	—
GDE166.1P	44 lb-in. (5 Nm)	0-10 Vdc	24 Vac	0-1kOhm	2	90	—	—	—	—	—	—	—
GLB131.1P	88 lb-in. (10 Nm)	Floating	24 Vac	—	—	125	MN6110A1003	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	—	95
GLB161.1P	88 lb-in. (10 Nm)	0-10 Vdc	24 Vac	—	—	125	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
GLB132.1P	88 lb-in. (10 Nm)	Floating	24 Vac	0-1kOhm	—	125	ML6174A2002 + 200976C	70 lb-in. (8 Nm)	On/Off, Floating	24 Vac	0-2 kOhm	—	95
GLB136.1P	88 lb-in. (10 Nm)	Floating	24 Vac	—	2	125	MN6110A1201	88 lb-in. (10 Nm)	On/Off, Floating	24 Vac/Vdc (+20 / -15%)	—	2 (5, 85)	95
GLB163.1P	88 lb-in. (10 Nm)	0-10 Vdc	24 Vac	—	—	125	MN7510A2001	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	—	95
GLB164.1P	88 lb-in. (10 Nm)	0-10 Vdc	24 Vac	—	2	125	—	—	—	—	—	—	—
GLB166.1P	88 lb-in. (10 Nm)	0-10 Vdc	24 Vac	—	2	125	MN7510A2209	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc (+20 / -15%)	(0) 2-10 Vdc	2 (5, 85)	95
GEB131.1U	132 lb-in. (15 Nm)	Floating	24 Vac	—	—	125	MN6120A1002	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
GEB161.1U	132 lb-in. (15 Nm)	0-10 Vdc	24 Vac	0-1kOhm	—	125	—	—	—	—	—	—	—
GEB132.1U	132 lb-in. (15 Nm)	Floating	24 Vac	0-1kOhm	—	125	—	—	—	—	—	—	—
GEB136.1U	132 lb-in. (15 Nm)	Floating	24 Vac	—	2	125	MN6120A1200	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	2 (5, 85)	95
GEB164.1U	132 lb-in. (15 Nm)	0-10 Vdc	24 Vac	0-1kOhm	2	125	—	—	—	—	—	—	—
GBB171.1U	177 lb-in. (20 Nm)	On/Off, Floating	24 Vac	—	—	150	—	—	—	—	—	—	—
GBB171.1P	177 lb-in. (20 Nm)	On/Off, Floating	24 Vac	—	—	150	MN6120A1002	175 lb-in. (20 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
GBB161.1U	177 lb-in. (20 Nm)	0-10 Vdc	24 Vac	—	—	150	—	—	—	—	—	—	—
GBB161.1P	177 lb-in. (20 Nm)	0-10 Vdc	24 Vac	—	—	150	MN7220A2007	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
GBB151.1U	177 lb-in. (20 Nm)	4-20 mA	24 Vac	—	—	150	—	—	—	—	—	—	—
GBB151.1P	177 lb-in. (20 Nm)	4-20 mA	24 Vac	—	—	150	MN7220A2007	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
GBB175.1U	177 lb-in. (20 Nm)	On/Off, Floating	24 Vac	0-1kOhm	—	150	—	—	—	—	—	—	—
GBB175.1P	177 lb-in. (20 Nm)	On/Off, Floating	24 Vac	0-1kOhm	—	150	—	—	—	—	—	—	—
GBB166.1U	177 lb-in. (20 Nm)	0-10 Vdc	24 Vac	—	2	150	—	—	—	—	—	—	—
GBB166.1P	177 lb-in. (20 Nm)	0-10 Vdc	24 Vac	—	2	150	MN7220A2205	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (5, 85)	95
GBB156.1U	177 lb-in. (20 Nm)	4-20 mA	24 Vac	—	2	150	—	—	—	—	—	—	—

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Siemens Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
GBB156.1P	177 lb-in. (20 Nm)	4-20 mA	24 Vac	—	2	150	MN7220A2205	175 lb-in. (20 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (5, 85)	95
GIB131.1U	310 lb-in. (35 Nm)	Floating	24 Vac	—	—	150	MN6134A1003	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
GIB131.1P	310 lb-in. (35 Nm)	Floating	24 Vac	—	—	150							
GIB132.1U	310 lb-in. (35 Nm)	Floating	24 Vac	0-1kOhm	—	150	—	—	—	—	—	—	—
GIB132.1P	310 lb-in. (35 Nm)	Floating	24 Vac	0-1kOhm	—	150	—	—	—	—	—	—	—
GIB136.1U	310 lb-in. (35 Nm)	Floating	24 Vac	—	2	150	MN6134A1003 + SW2	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	2 (Adjustable)	95
GIB136.1P	310 lb-in. (35 Nm)	Floating	24 Vac	—	2	150							
GIB163.1U	310 lb-in. (35 Nm)	0-10 Vdc	24 Vac	0-1kOhm	—	150	—	—	—	—	—	—	—
GIB163.1P	310 lb-in. (35 Nm)	0-10 Vdc	24 Vac	0-1kOhm	—	150	—	—	—	—	—	—	—
GIB164.1U	310 lb-in. (35 Nm)	0-10 Vdc	24 Vac	0-1kOhm	2	150	—	—	—	—	—	—	—
GIB164.1P	310 lb-in. (35 Nm)	0-10 Vdc	24 Vac	0-1kOhm	2	150	—	—	—	—	—	—	—
GIB171.1U	310 lb-in. (35 Nm)	On/Off, Floating	24 Vac	—	—	150	MN6134A1003	300 lb-in. (34 Nm)	On/Off, Floating	24 Vac (±15%), 24 Vdc	—	—	95
GIB171.1P	310 lb-in. (35 Nm)	On/Off, Floating	24 Vac	—	—	150							
GIB161.1U	310 lb-in. (35 Nm)	0-10 Vdc	24 Vac	—	—	150	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
GIB161.1P	310 lb-in. (35 Nm)	0-10 Vdc	24 Vac	—	—	150							
GIB151.1U	310 lb-in. (35 Nm)	4-20 mA	24 Vac	—	—	150	MN7234A2008	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	95
GIB151.1P	310 lb-in. (35 Nm)	4-20 mA	24 Vac	—	—	150							
GIB175.1U	310 lb-in. (35 Nm)	On/Off, Floating	24 Vac	0-1kOhm	—	150	—	—	—	—	—	—	—
GIB175.1P	310 lb-in. (35 Nm)	On/Off, Floating	24 Vac	0-1kOhm	—	150	—	—	—	—	—	—	—
GIB166.1U	310 lb-in. (35 Nm)	0-10 Vdc	24 Vac	—	2	150	MN7234A2008 + SW2	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	95
GIB166.1P	310 lb-in. (35 Nm)	0-10 Vdc	24 Vac	—	2	150							
GIB156.1U	310 lb-in. (35 Nm)	4-20 mA	24 Vac	—	2	150	MN7234A2008 + SW2	300 lb-in. (34 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (Adjustable)	95
GIB156.1P	310 lb-in. (35 Nm)	4-20 mA	24 Vac	—	2	150							
GIB161.1P/MAS	310 lb-in. (35 Nm)	0-10 Vdc	24 Vac	0-1kOhm	—	150	—	—	—	—	—	—	—
GIB164.1P/MAS	310 lb-in. (35 Nm)	0-10 Vdc	24 Vac	0-1kOhm	2	150	—	—	—	—	—	—	—
GIB161.1P/SLA	310 lb-in. (35 Nm)	0-10 Vdc	24 Vac	—	—	150	—	—	—	—	—	—	—
—	—	—	—	—	—	—	MS4105A1002	44 lb-in. (5 Nm)	On/Off	100-250 Vac	—	—	45
—	—	—	—	—	—	—	MS7505A2008	44 lb-in. (5 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
—	—	—	—	—	—	—	MS8105A1008	44 lb-in. (5 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
—	—	—	—	—	—	—	MS7520H2208	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
—	—	—	—	—	—	—	MS7510H2209	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
GMA121.1U	62 lb-in. (7 Nm)	On/Off	24 Vac	—	—	90	MS8110A1008	88 lb-in. (10 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
GMA121.1P	62 lb-in. (7 Nm)	On/Off	24 Vac	—	—	90							
GMA121.1P/B	62 lb-in. (7 Nm)	On/Off	24 Vac	—	—	90							

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Siemens Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
GMA151.1U	62 lb-in. (7 Nm)	2-10 Vdc	24 Vac/Vdc	0-1kOhm	—	90	ML7174A2001 + 200976C	70 lb-in. (8 Nm)	(0) 2-10 Vdc, (0) 4-20 mA	24 Vac/Vdc - 15%/+20%	0-2 kOhm	—	95
GMA151.1P	62 lb-in. (7 Nm)	2-10 Vdc	24 Vac/Vdc	0-1kOhm	—	90							
GMA156.1U	62 lb-in. (7 Nm)	2-10 Vdc	24 Vac/Vdc	0-1kOhm	2	90	—	—	—	—	—	—	—
GMA156.1P	62 lb-in. (7 Nm)	2-10 Vdc	24 Vac/Vdc	0-1kOhm	2	90	—	—	—	—	—	—	—
GMA163.1U	62 lb-in. (7 Nm)	0-10 Vdc	24 Vac/Vdc	0-1kOhm	—	90	—	—	—	—	—	—	—
GMA163.1P	62 lb-in. (7 Nm)	0-10 Vdc	24 Vac/Vdc	0-1kOhm	—	90	—	—	—	—	—	—	—
GMA164.1U	62 lb-in. (7 Nm)	0-10 Vdc	24 Vac/Vdc	0-1kOhm	2	90	—	—	—	—	—	—	—
GMA221.1U	62 lb-in. (7 Nm)	On/Off	120 Vac	—	—	90	MS4110A1002	88 lb-in. (10 Nm)	On/Off	100-250 Vac	—	—	45
GMA131.1U	62 lb-in. (7 Nm)	Floating	24 Vac/Vdc	—	—	90	MS7510A2008	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc - 15%/+20%	(0) 2-10 Vdc	—	90
GMA161.1U	62 lb-in. (7 Nm)	0-10 Vdc	24 Vac	0-1kOhm	—	90	—	—	—	—	—	—	—
GMA161.1P	62 lb-in. (7 Nm)	0-10 Vdc	24 Vac	0-1kOhm	—	90	—	—	—	—	—	—	—
GMA132.1U	62 lb-in. (7 Nm)	Floating	24 Vac	0-1kOhm	—	90	—	—	—	—	—	—	—
GMA126.1U	62 lb-in. (7 Nm)	On/Off	24 Vac	—	2	90	MS8110A1206	88 lb-in. (10 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (7, 85)	45
GMA126.1P	62 lb-in. (7 Nm)	On/Off	24 Vac	—	2	90							
GMA226.1U	62 lb-in. (7 Nm)	On/Off	120 Vac	—	2	90	MS4110A1200	88 lb-in. (10 Nm)	On/Off	100-250 Vac	—	2 (7, 85)	45
GMA136.1U	62 lb-in. (7 Nm)	Floating	24 Vac	—	2	90	MS7510A2206	88 lb-in. (10 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac/Vdc - 15%/+20%	(0) 2-10 Vdc	2 (7, 85)	90
GMA166.1U	62 lb-in. (7 Nm)	0-10 Vdc	24 Vac	0-1kOhm	2	90	—	—	—	—	—	—	—
GMA166.1P	62 lb-in. (7 Nm)	0-10 Vdc	24 Vac	0-1kOhm	2	90	—	—	—	—	—	—	—
GCA121.1U	142 lb-in. (16 Nm)	On/Off	24 Vac	—	—	90	MS8120A1007	175 lb-in. (20 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	—	45
GCA121.1P	142 lb-in. (16 Nm)	On/Off	24 Vac	—	—	90							
GCA221.1U	142 lb-in. (16 Nm)	On/Off	120 Vac	—	—	90	MS4120A1001	175 lb-in. (20 Nm)	On/Off	100-250 Vac	—	—	45
GCA131.1U	142 lb-in. (16 Nm)	Floating	24 Vac	—	—	90	—	—	—	—	—	—	—
GCA131.1P	142 lb-in. (16 Nm)	Floating	24 Vac	—	—	90	—	—	—	—	—	—	—
GCA132.1U	142 lb-in. (16 Nm)	Floating	24 Vac/Vdc	0-1kOhm	—	90	—	—	—	—	—	—	—
GCA132.1P	142 lb-in. (16 Nm)	Floating	24 Vac/Vdc	0-1kOhm	—	90	—	—	—	—	—	—	—
GCA136.1U	142 lb-in. (16 Nm)	Floating	24 Vac/Vdc	—	2	90	—	—	—	—	—	—	—
GCA136.1P	142 lb-in. (16 Nm)	Floating	24 Vac/Vdc	—	2	90	—	—	—	—	—	—	—
GCA161.1U	142 lb-in. (16 Nm)	0-10 Vdc	24 Vac	—	—	90	—	—	—	—	—	—	—
GCA161.1P	142 lb-in. (16 Nm)	0-10 Vdc	24 Vac	—	—	90	—	—	—	—	—	—	—
GCA163.1U	142 lb-in. (16 Nm)	0-10 Vdc	24 Vac/Vdc	0-1kOhm	—	90	—	—	—	—	—	—	—
GCA163.1P	142 lb-in. (16 Nm)	0-10 Vdc	24 Vac/Vdc	0-1kOhm	—	90	—	—	—	—	—	—	—
GCA164.1U	142 lb-in. (16 Nm)	0-10 Vdc	24 Vac/Vdc	0-1kOhm	2	90	—	—	—	—	—	—	—
GCA164.1P	142 lb-in. (16 Nm)	0-10 Vdc	24 Vac/Vdc	0-1kOhm	2	90	—	—	—	—	—	—	—
GCA151.1U	142 lb-in. (16 Nm)	4-20 mA	24 Vac	—	—	90	MS7520A2007	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	—	90
GCA151.1P	142 lb-in. (16 Nm)	4-20 mA	24 Vac	—	—	90							

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

COMPETITIVE DIRECT COUPLED ACTUATOR CROSS REFERENCE

Siemens Model	Torque (lb-in.)	Control Signal	Power	Feedback	Switches	Timing (sec)	Honeywell Actuator	Torque (lb-in.)	Control Signal ^a	Power	Feedback ^a	Switches	Timing (sec)
GCA126.1U	142 lb-in. (16 Nm)	On/Off	24 Vac	—	2	90	MS8120A1205	175 lb-in. (20 Nm)	On/Off	24 Vac (±20%), 24 Vdc	—	2 (7, 85)	45
GCA126.1P	142 lb-in. (16 Nm)	On/Off	24 Vac	—	2	90							
GCA226.1U	142 lb-in. (16 Nm)	On/Off	120 Vac	—	2	90	MS4120A1209	175 lb-in. (20 Nm)	On/Off	100-250 Vac	—	2 (7, 85)	45
GCA135.1U	142 lb-in. (16 Nm)	Floating	24 Vac	0-1kOhm	2	90	—	—	—	—	—	—	—
GCA135.1P	142 lb-in. (16 Nm)	Floating	24 Vac	0-1kOhm	2	90	—	—	—	—	—	—	—
GCA166.1U	142 lb-in. (16 Nm)	0-10 Vdc	24 Vac	—	2	90	MS7520A2205	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90
GCA166.1P	142 lb-in. (16 Nm)	0-10 Vdc	24 Vac	—	2	90							
GCA156.1U	142 lb-in. (16 Nm)	4-20 mA	24 Vac	—	2	90	MS7520A2205	175 lb-in. (20 Nm)	On/Off, Floating, (0) 2-10 Vdc	24 Vac (±20%), 24 Vdc	(0) 2-10 Vdc	2 (7, 85)	90

^a All models described as (0) 2-10 Vdc can be used with a 4-20 mA control input. Shunt a 500 ohm, 1/2 W resistor across the input at the actuator.

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