

MCG[®]

INDUSTRIAL MOTOR
CONTROL & AUTOMATION



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Contactors

3 Pole Contactors with AC operating coil



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Item #	Description	Aux Contacts	
		N. Open	N. Closed
MC1D0910xx	Contactator 9 Amps - 5HP	1	-
MC1D0901xx	Contactator 9 Amps - 5HP	-	1
MC1D1210xx	Contactator 12 Amps - 7.5HP	1	-
MC1D1201xx	Contactator 12 Amps - 7.5HP	-	1
MC1D1810xx	Contactator 18 Amps - 10HP	1	-
MC1D1801xx	Contactator 18 Amps - 10HP	-	1
MC1D2510xx	Contactator 25 Amps - 15HP	1	-
MC1D2501xx	Contactator 25 Amps - 15HP	-	1
MC1D3210xx	Contactator 32 Amps - 20HP	1	-
MC1D3201xx	Contactator 32 Amps - 20HP	-	1
MC1D4011xx	Contactator 40 Amps - 30HP	1	1
MC1D5011xx	Contactator 50 Amps - 40HP	1	1
MC1D6511xx	Contactator 65 Amps - 50HP	1	1
MC1D8011xx	Contactator 80 Amps - 60HP	1	1
MC1D9511xx	Contactator 95 Amps - 60HP	1	1
MC1FDP115Axx	Contactator 115 Amps - 75HP	-	-
MC1FDP150Axx	Contactator 150 Amps - 100HP	-	-
MC1FDP185Axx	Contactator 185 Amps - 125HP	-	-
MC1FDP225Axx	Contactator 225 Amps - 130HP	-	-
MC1FDP265Axx	Contactator 265 Amps - 150HP	-	-
MC1FDP330Axx	Contactator 330 Amps - 200HP	-	-
MC1FDP400Axx	Contactator 400 Amps - 250HP	-	-
MC1FDP500Axx	Contactator 500 Amps - 400HP	-	-
MC1FDP630Axx	Contactator 630 Amps - 600HP	-	-
MC1FDP780Axx	Contactator 780 Amps current rated	-	-
MC1FDP800Axx	Contactator 800 Amps current rated	-	-

Replace xx with the coil voltage code below (i.e. MC1D0910G7 for 120v)

Volts AC	24	48	110	120	208*	220	230	240
Code	B7	E7	F7	G7	L6	M7	P7	U7
Volts AC	277*	380	400	415	440	480*	575*	600*
Code	W6	Q7	V7	N7	R7	T6	S6	X6

All coils are dual frequency 50/60 Hz with the exceptions marked * which are 60 Hz only. For other voltages and frequencies not mentioned, please consult MCG.

For AC Contactors with DC coils, please see page 4

For Contactor accessories, please see page 6

For Thermal overloads, please see page 5

Contactors

4 Pole Contactors with AC operating coil



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Item #	Description	Main Pole Config	
		N. Open	N. Closed
MC1D09004xx	Contactator 9 Amps - 5HP	4	-
MC1D09008xx	Contactator 9 Amps - 5HP	2	2
MC1D12004xx	Contactator 12 Amps - 7.5HP	4	-
MC1D12008xx	Contactator 12 Amps - 7.5HP	2	2
MC1D25004xx	Contactator 25 Amps - 15HP	4	-
MC1D25008xx	Contactator 25 Amps - 15HP	2	2
MC1D40004xx	Contactator 40 Amps - 30HP	4	-
MC1D40008xx	Contactator 40 Amps - 30HP	2	2
MC1D50004xx	Contactator 50 Amps - 40HP	4	-
MC1D50008xx	Contactator 50 Amps - 40HP	2	2
MC1D65004xx	Contactator 65 Amps - 50HP	4	-
MC1D65008xx	Contactator 65 Amps - 50HP	2	2
MC1D80004xx	Contactator 80 Amps - 60HP	4	-
MC1D80008xx	Contactator 80 Amps - 60HP	2	2
MC1FDP1154Axx	Contactator 115 Amps - 75HP	4	-
MC1FDP1504Axx	Contactator 150 Amps - 100HP	4	-
MC1FDP1854Axx	Contactator 185 Amps - 125HP	4	-
MC1FDP2254Axx	Contactator 225 Amps - 130HP	4	-
MC1FDP2654Axx	Contactator 265 Amps - 150HP	4	-
MC1FDP3304Axx	Contactator 330 Amps - 200HP	4	-
MC1FDP4004Axx	Contactator 400 Amps - 250HP	4	-
MC1FDP5004Axx	Contactator 500 Amps - 400HP	4	-
MC1FDP6304Axx	Contactator 630 Amps - 600HP	4	-
MC1FDP7804Axx	Contactator 780 Amps current rated	4	-
MC1FDP8004Axx	Contactator 800 Amps current rated	4	-

Replace xx with the coil voltage code below (i.e. MC1D0910G7 for 120v)

Volts AC	24	48	110	120	208*	220	230	240
Code	B7	E7	F7	G7	L6	M7	P7	U7
Volts AC	277*	380	400	415	440	480*	575*	600*
Code	W6	Q7	V7	N7	R7	T6	S6	X6

All coils are dual frequency 50/60 Hz with the exceptions marked * which are 60 Hz only. For other voltages and frequencies not mentioned, please consult MCG.

For AC Contactors with DC coils, please see page [4](#)

For Contactator accessories, please see page [6](#)

For Thermal overloads, please see page [5](#)

Contactors

3 Pole Reversing Contactors with AC operating coil



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(2) 3 pole mechanically interlocked contactors, with pre-wired power wiring



Item #	Description	Aux Contacts	
		N. Open	N. Closed
MC2D0911xx	Contactors 9 Amps - 5HP	1	1
MC2D1211xx	Contactors 12 Amps - 7.5HP	1	1
MC2D1811xx	Contactors 18 Amps - 10HP	1	1
MC2D2511xx	Contactors 25 Amps - 15HP	1	1
MC2D3211xx	Contactors 32 Amps - 20HP	1	1
MC2D4011xx	Contactors 40 Amps - 30HP	2	2
MC2D5011xx	Contactors 50 Amps - 40HP	2	2
MC2D6511xx	Contactors 65 Amps - 50HP	2	2
MC2D8011xx	Contactors 80 Amps - 60HP	2	2
MC2D9511xx	Contactors 95 Amps - 60HP	2	2

Replace xx with the coil voltage code below (i.e. MC1D0910G7 for 120v)

Volts AC	24	48	110	120	208*	220	230	240
Code	B7	E7	F7	G7	L6	M7	P7	U7
Volts AC	277*	380	400	415	440	480*	575*	600*
Code	W6	Q7	V7	N7	R7	T6	S6	X6

All coils are dual frequency 50/60 Hz with the exceptions marked * which are 60 Hz only. For other voltages and frequencies not mentioned, please consult MCG.

For AC Contactors with DC coils, please see page [4](#)

For Contactor accessories, please see page [6](#)

For Thermal overloads, please see page [5](#)

3 & 4 Pole Contactors with DC operating coil

3 Pole Contactors with DC operating coil



Item #	Description	Built in Aux Contacts	
		N. Open	N. Closed
MP1D0910xx	Contactora 3P with DC coil 9 Amps - 5HP	1	-
MP1D0901xx	Contactora 3P with DC coil 9 Amps - 5HP	-	1
MP1D1210xx	Contactora 3P with DC coil 12 Amps - 7.5HP	1	-
MP1D1201xx	Contactora 3P with DC coil 12 Amps - 7.5HP	-	1
MP1D1810xx	Contactora 3P with DC coil 18 Amps - 10HP	1	-
MP1D1801xx	Contactora 3P with DC coil 18 Amps - 10HP	-	1
MP1D2510xx	Contactora 3P with DC coil 25 Amps - 15HP	1	-
MP1D2501xx	Contactora 3P with DC coil 25 Amps - 15HP	-	1
MP1D3210xx	Contactora 3P with DC coil 32 Amps - 20HP	1	-
MP1D3201xx	Contactora 3P with DC coil 32 Amps - 20HP	-	1
MP1D4011xx	Contactora 3P with DC coil 40 Amps - 30HP	1	1
MP1D5011xx	Contactora 3P with DC coil 50 Amps - 40HP	1	1
MP1D6511xx	Contactora 3P with DC coil 65 Amps - 50HP	1	1
MP1D8011xx	Contactora 3P with DC coil 80 Amps - 60HP	1	1

4 Pole Contactors with DC operating coil



Item #	Description	Main Pole Config	
		N. Open	N. Closed
MP1D09004xx	Contactora 4P with DC coil 9 Amps - 5HP	4	-
MP1D09006xx	Contactora 4P with DC coil 9 Amps - 5HP	2	2
MP1D12004xx	Contactora 4P with DC coil 12 Amps - 7.5HP	4	-
MP1D12006xx	Contactora 4P with DC coil 12 Amps - 7.5HP	2	2
MP1D18004xx	Contactora 4P with DC coil 18 Amps - 10HP	4	-
MP1D18006xx	Contactora 4P with DC coil 18 Amps - 10HP	2	2
MP1D25004xx	Contactora 4P with DC coil 25 Amps - 15HP	4	-
MP1D25006xx	Contactora 4P with DC coil 25 Amps - 15HP	2	2
MP1D32004xx	Contactora 4P with DC coil 32 Amps - 20HP	4	-
MP1D32006xx	Contactora 4P with DC coil 32 Amps - 20HP	2	2
MP1D40004xx	Contactora 4P with DC coil 40 Amps - 30HP	4	-
MP1D40008xx	Contactora 4P with DC coil 40 Amps - 30HP	2	2
MP1D50004xx	Contactora 4P with DC coil 50 Amps - 40HP	4	-
MP1D50008xx	Contactora 4P with DC coil 50 Amps - 40HP	2	2
MP1D65004xx	Contactora 4P with DC coil 65 Amps - 50HP	4	-
MP1D65008xx	Contactora 4P with DC coil 65 Amps - 50HP	2	2
MP1D80004xx	Contactora 4P with DC coil 80 Amps - 60HP	4	-
MP1D80008xx	Contactora 4P with DC coil 80 Amps - 60HP	2	2

Replace xx with coil voltage code below (i.e. MP1D0910BD for 24vDC)

Volts DC	12	24	48	72	110	125	220	250	440
Code	JD	BD	ED	SD	FD	GD	MD	UD	RD

For technical details on these products please refer to page XX

For accessories for these products please refer to page 6

For thermal overloads to fit this product line, please refer to page 5

Thermal Overload Relays



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Item #	Current Range	Single Phase (HP)		Three phase (HP)		Fits Contactors From- To	Stand Alone Overload Mount
		115V	230v	230v	460v		
MR2D09301	0.01 - 0.16					9amp - 32amp	MA7D0964
MR2D09302	0.16 - 0.25						
MR2D09303	0.25 - 0.4						
MR2D09304	0.4 - 0.63						
MR2D09305	0.63 - 1						
MR2D09306	1 - 1.6				1/2-3/4		
MR2D09307	1.6 - 2.5		1/6	1/2	1		
MR2D09308	2.5 - 4		1/4-1/3	3/4-1	1.1/2-2		
MR2D09310	4 - 6	1/6	1/2	1.1/2	3		
MR2D09312	5.5 - 8	1/4	3/4	2			
MR2D09314	7 - 10	1/3	1		5		
MR2D12316	9 - 13	1/2	1.1/2	3	7 1/2		
MR2D18321	12 - 18	3/4-1	2		10		
MR2D25322	17 - 25	1.1/2	3	7 1/2	15		
MR2D32353	23 - 32	2			20		
MR2D32355	28 - 36		5	10			
MR2D40355	30 - 40				25		
MR2D65357	37 - 50		7.1/2	15	30		
MR2D65359	48 - 65		10	20	40		
MR2D65361	55 - 70			25	50		
MR2D80363	63 - 80				60		
MR2D95365	80 - 93			30			
MR1F105	65 - 105				75		
MR1F125	80 - 125			40			
MR1F160	100 - 160				100		
MR1F200	125 - 200			50	125		
MR1F250	160 - 250			75	150		
MR1F315	200 - 315			100	200		
MR1F400	250 - 400			150	250		
MR1F500	315 - 500				300		
MR1F630	400 - 630						
MR1F800*	500 - 800						
MR1F1000*	630 - 1000						

Auxilliary Contacts



Item #	Description	Configuration	
		NO	NC
MA1DN22	Top Mount auxiliary contact block fits all contactors up to 800 amps	2	2
MA1DN13		1	3
MA1DN40		4	0
MA1DN04		0	4
MA1DN31		3	1
MA1DN11		1	1
MA1DN20		2	0
MA1DN02		0	2
MA1DN10		1	0
MA1DN01		0	1
MA8DN11	Side Mount auxiliary contact block for contactors up to 95 amps and relays	1	1
MA8DN20		2	0

Pneumatic Timer Head



Item #	Description	Configuration	
		NO	NC
MA2DT0	Time range 0.1 - 3 seconds on delay	1	1
MA2DT2	Time range 0.1 - 30 seconds on delay	1	1
MA2DT4	Time range 10 - 180 seconds on delay	1	1
MA3DR0	Time range 0.1 - 3 seconds off delay	1	1
MA3DR2	Time range 0.1 - 3 seconds off delay	1	1
MA3DR4	Time range 0.1 - 3 seconds off delay	1	1
MA2DS2	Time range 1 - 30 seconds on delay*	1	1

* with approx 40ms +/- 15ms on changeover for star delta applications

Mechanical latch blocks



Item #	Description
MA6DK01x	Mechanical latch block for contactors up to 32 Amps

Replace x with control voltage below (i.e. MA6DK01G for 220vAC)

VAC	24	48	120-127	230-240
Coil code	B	E	G	U

Protective Shrouds for 115A to 800A contactors (6 per set)



Item #	For contactor type
MA9F701	MC1F115A
MA9F702	MC1F150/185A
MA9F703	MC1F225 thru 500A
MA9F704	MC1F630/800A

Mechanical Interlocks (Horizontally mounted)



Item #	Fits contactor sizes
MA9D09978	MC1D 09/12/18/25/32
MA9D50978	MC1D 40/55/65
MA9D80978	MC1D 80/95
MA9FF970	MC1FDP 115A/150A
MA9FG970	MC1FDP 185A/225A
MA9FJ970	MC1FDP 265A/330A/400A/500A
MA9FL970	MC1FDP 630A

Mechanical Interlocks (Vertically mounted)



Item #	Fits contactor sizes
MA9FF4F	MC1FDP115A/150A
MA9FG4G	MC1FDP185A/225A
MA9FH4H	MC1FDP265A
MA9FJ4J	MC1FDP330A/400A
MA9FK4K	MC1FDP500A
MA9FL4L	MC1FDP630A
MA9FX970	MC1FDP780A

Power Connection wires for reversing contactors



item #	Two identical contactors type
MA9D1269	MC1D 09/12
MA9D1869	MC1D 18
MA9D2569	MC1D 25
MA9D3269	MC1D 32
MA9D6569	MC1D 40/50/65
MA9D8069	MC1D 80/95
MA9FF976	MC1FDP 115A
MA9F15076	MC1FDP 150A
MA9FG976	MC1FDP 185A
MA9F22576	MC1FDP 225A
MA9FH976	MC1FDP 265A
MA9FJ976	MC1FDP 330/400A
MA9FK976	MC1FDP 500A
MA9FL976	MC1FDP 630A

Spare AC operating coils



Item #	For contactor type
MX1D2xx	MC1D09 - D18 & MCA2DN relays
MX1D4xx	MC1D25 - D32
MX1D6xx	MC1D40 - D95
MX1FFxx	F115 - F150
MX1FGxx	F185 - F225
MX1FHxx	F265 - 330
MX1FJxx	F400
MX1FKxx	F500
MX1FLxx	F630
MX1FXxx	F780
MX4F8xx	F800

Replace xx with the coil voltage code below (i.e. MX1FXB7 for 24v)

Volts AC	24	48	110	120	208*	220	230	
Code	B7	E7	F7	G7	L6	M7	P7	
Volts AC	277*	380	400	415	440	480*	575*	
Code	W6	Q7	V7	N7	R7	T6	S6	

Spare DC operating coils



Item #	For contactor type
MX4D2xx	MP1D09 - MP1D18
MX4D4xx	MP1D25 - MP1D32
MX4D40xx	MP1D40 - MP1D65
MX4D80xx	MP1D80

Replace xx with the coil voltage code below (i.e. MX14D40BD for 24vDC)

Volts DC	12	24	48	72	110	125	220	440
Code	JD	BD	ED	SD	FD	GD	MD	RD

Replacement Contact Sets (Main Poles fixed and moving)



Item #	For Contactor type
MC1FDP115A	MA5FF431
MC1FDP150A	MA5FF431
MC1FDP185A	MA5FG431
MC1FDP225A	MA5FG431
MC1FDP265A	MA5FH431
MC1FDP330A	MA5F400803
MC1FDP400A	MA5F400803
MC1FDP500A	MA5F500803
MC1FDP630A	MA5F630803
MC1FDP780A	MA5F780803

Direct-on-Line Enclosed Motor Starters (IP65 Plastic Enclosure) *



Maximum Current		Maximum HP 3 Phase		Maximum HP 1 Phase		Item #
AC3	AC1	230 volts	480 volts	120 volts	230 volts	
25	40A	7.5	15	2	3	ME1D253xx

Direct-on-Line Enclosed Motor Starters (NEMA Type Metal Enclosure) *



Maximum Current		Maximum HP 3 Phase		Maximum HP 1 Phase		Item #
AC3	AC1	230 volts	480 volts	120 volts	230 volts	
32A	50A	10	20	2	5	ME1D3236xx
65A	80A	20	40	NA	NA	ME1D6536xx

Direct-on-Line Reversing Enclosed Motor Starters (NEMA Type Metal Enclosure) *



Maximum Current		Maximum HP 3 Phase		Maximum HP 1 Phase		Item #
AC3	AC1	230 volts	460 volts	120 volts	230 volts	
32A	50A	10	20	2	5	ME2D3236xx

Replace xx with the coil voltage code below (i.e. ME1D323G7 for 120v)

Volts AC	24	48	110	120	208*	220	230	240
Code	B7	E7	F7	G7	L6	M7	P7	U7
Volts AC	277*	380	400	415	440	480*	575*	600*
Code	W6	Q7	V7	N7	R7	T6	S6	X6

* Overloads to suit FLC of motor sold separately please see page 5

Push Buttons and Pilot Lights "Quick Kits" for NEMA Type Enclosures



Description	Item #
ON/OFF Selector switch	MA9C6
Hand / Off / Auto selector switch	MA9C9
Red pilot light	MA9P124
Green pilot light	MA9P123
Start / Stop Pushbutton	MA9A
On / Off Selector switch with Red Pilot light	MA9C6P124
On / Off Selector switch with Green Pilot light	MA9C6P123
Start / Stop Pushbutton with red pilot light	MA9AP124
Start / Stop Pushbutton with green pilot light	MA9AP123
Hand / Off / Auto selector switch with red pilot light	MA9CP124
Hand / Off / Auto selector switch with green pilot light	MA9CP123

AC Control Relays with AC operating coil



Item #	Description	Contacts	
		N. Open	N. Closed
MCA2DN22xx	Control relay - AC operating coil	2	2
MCA2DN31xx	Control relay - AC operating coil	3	1
MCA2DN40xx	Control relay - AC operating coil	4	-

Replace xx with the coil voltage code below (i.e. MCA2DN22G7)

Volts AC	24	48	110	120	208*	220	230	240
Code	B7	E7	F7	G7	L6	M7	P7	U7
Volts AC	277*	380	400	415	440	480*	575*	600*
Code	W6	Q7	V7	N7	R7	T6	S6	X6

All coils are dual frequency 50/60 Hz with the exceptions marked * which are 60 Hz only. For AC relay accessories, please see page 6

AC Control Relays with DC operating coil



Item #	Description	Contacts	
		N. Open	N. Closed
MCA3DN22xx	Control relay - DC operating coil	2	2
MCA3DN31xx	Control relay - DC operating coil	3	1
MCA3DN40xx	Control relay - DC operating coil	4	-









Replace xx with coil voltage code below (i.e. MP1D0910BD)

Volts DC	12	48	72	110	125	220	250	440
Code	JD	ED	SD	FD	GD	MD	UD	RD






For AC relay accessories, please see page 6

Non Illuminated Pushbuttons 22mm





Flush Push Button Spring Return	White		MB2BA1
	Black		MB2BA2
	Green		MB2BA3
	Red		MB2BA4
	Yellow		MB2BA5
	Blue		MB2BA6
	Black Arrow on White Base		MB2BA334
	White Arrow on Black Base		MB2BA335









Recess (Guarded) Push Button	White		MB2BA16
	Black		MB2BA26
	Green		MB2BA36
	Red		MB2BA46
	Yellow		MB2BA56
	Blue		MB2BA66



Projecting Push Button Spring Return	White		MB2BL1
	Black		MB2BL2
	Green		MB2BL3
	Red		MB2BL4
	Yellow		MB2BL5
	Blue		MB2BL6









Booted Push Button Spring Return	White		MB2BP1
	Black		MB2BP2
	Green		MB2BP3
	Red		MB2BP4
	Yellow		MB2BP5
	Blue		MB2BP6



Flush Push Button Spring Return with Transparent Boot IP66	White		MB2BA18
	Black		MB2BA28
	Green		MB2BA38
	Red		MB2BA48
	Yellow		MB2BA58
	Blue		MB2BA68



Mushroom Head Push Button Spring Return	Black		MB2BC2
	Green		MB2BC3
	Red		MB2BC4
	Yellow		MB2BC5
	Blue		MB2BC6
	Red		MB2BR4

40 mm

60 mm

Non Illuminated Pushbuttons 22mm



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Mushroom Head Push Button	30 mm	Red		MB2BS44
Turn to Release	40 mm	Red		MB2BS54
	60 mm	Red		MB2BS64



Mushroom Head Push Button	40 mm	Red		MB2BS14
Key Release - Key No. 455				

Mushroom Head Push Button	40 mm	Red (Pre Marked)		MB2BT4
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Push to Stay and Pull to Release		Red		MB2BT43
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2 Flush Push Buttons, Spring Return	I	Green		MB2BA87
W/O Pilot Light - IP 40	O	Red		

Selector Switches



	Function	Handle style	Item #
2 Position	Stay Put	Standard Handle	MB2BD2
		Long Handle	MB2BJ2
	Spring Return to Center from Right & Left	Standard Handle	MB2BDR2
		Long Handle	MB2BJR2



3 Position	Stay Put	Standard Handle	MB2BD3
		Long Handle	MB2BJ3
	Spring Return	Standard Handle	MB2BDR3
		Long Handle	MB2BJR3
Spring Return Right to Center	Standard Handle	MB2BD8	
	Long Handle	MB2BJ8	
Spring Return Left to Center	Standard Handle	MB2BD7	
	Long Handle	MB2BJ7	

Operating Heads for Key Switches - IP 65



	Function	Key removeable position(s)	Item #
2 Position	Stay Put	LH Position	MB2BG2
		RH Position	MB2BG02
All Positions		MB2BG4	
	Spring Return Right to Left	LH Position	MB2BG6
3 Position	Stay Put	Center Position	MB2BG3
		LH & RH Position	MB2BG5
		All 3 Positions	MB2BG0
		RH Position	MB2BG09
		LH Position	MB2BG9
	Stay Put to Left Spring Return from Right to Center	Center Position	MB2BG8
	Spring Return to Center from from Right and Left	Center Position	MB2BG7

Contact Blocks



Description	Contact	Type	Item #
Fixing collar and contact block	NO	Self Wiping silver contacts	MB2BZ101
	NC	Self Wiping silver contacts	MB2BZ102
Fixing collar and contact block	NO	Self Wiping gold contacts	MB2BZ1016
	NC	Self Wiping gold contacts	MB2BZ1026



Additional or replacement contact block	NO	Self Wiping silver contacts	MB2BE101
	NC	Self Wiping silver contacts	MB2BE102
Additional or replacement contact block	NO	Self Wiping gold contacts	MB2BE1016
	NC	Self Wiping gold contacts	MB2BE1026

Gold contacts are for use in extremely low power situations or where oxidation to the silver contacts may cause failure. Terminals are screw clamp type connections.



Quick connector (faston) for NO or NC contact block	MB2QC12
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Illuminated Pushbuttons and Pilot Lights 22mm



Flush Push Button Spring Return LED	White		MB2BWL31
	Green		MB2BWL33
	Red		MB2BWL34
	Amber		MB2BWL35
	Blue		MB2BWL36



Flush Push Button Spring Return Incandescent	White		MB2BW31
	Green		MB2BW33
	Red		MB2BW34
	Amber		MB2BW35
	Blue		MB2BW36



Projecting Push Button Spring Return Incandescent	White		MB2BW11
	Green		MB2BW13
	Red		MB2BW14
	Yellow		MB2BW15
	Blue		MB2BW16



Projecting Push Button Spring Return LED	White		MB2BWL11
	Green		MB2BWL13
	Red		MB2BWL14
	Amber		MB2BWL15
	Blue		MB2BWL16



Flush Push Button Spring Return with Transparent Boot IP66 Incandescent	White		MB2BW51
	Green		MB2BW53
	Red		MB2BW54
	Amber		MB2BW55
	Blue		MB2BW56



Mushroom Head Push Button Spring Return	Green		MB2BW43
	Red		MB2BW44
Mushroom Head Push Button Maintained	Green		MB2BW63
	Red		MB2BW64



1 Flush Push Button	I	Green	MB2BW9
1 Pilot Light (in center)		Amber	
1 Flush Push Button	O	Red	

Pilot Light Heads



Description	Color	Item #
for Incandescent bulbs	White	MB2BV01
	Green	MB2BV03
	Red	MB2BV04
	Amber	MB2BV05
	Blue	MB2BV06
	for LED	White
Green		MB2BVL03
Red		MB2BVL04
Amber		MB2BVL05
Blue		MB2BVL06

Selector Switches



Function	Standard Handle style	Item #
2 Position Stay Put	Green	MB2BK123
	Red	MB2BK124
	Amber	MB2BK125

Function	Standard Handle style	Item #
3 Position Stay Put	Green	MB2BK133
	Red	MB2BK134
	Amber	MB2BK135

Illuminated Push Button, Selector Switch and Pilot Light Assemblies



Incandescent

Description	Voltage	Item #
Direct Connect BA9S filament bulb (supplied)	12V	MB2BW0612
Direct Connect BA9S filament bulb (supplied)	24V	MB2BW0624
Direct Connect BA9S filament bulb (supplied)	48V	MB2BW0648
Direct Connect BA9S filament bulb (supplied)	130V	MB2BW06130



LED

Description	Voltage**	Item #
LED Cluster Bulb	12V, 24V, 48V, or 110V	MB2BWL71**
LED Cluster Bulb		MB2BWL73**
LED Cluster Bulb		MB2BWL74**
LED Cluster Bulb		MB2BWL75**
LED Cluster Bulb		MB2BWL76**

Up to four normally open or normally closed contact blocks, in any combination, may be added to the back of lamp assemblies, found on page xx.



Description	Supply Voltage**	Item #
Incandescent Filament Bulb	6V, 12V, 24V, 48V, 130V	ML1CF**
Bulb Extractor		MBFX13



Description	Color	Item #
Silicon Rubber Boot for MB2BP	White	MB2BP001
	Black	MB2BP002
	Green	MB2BP003
	Red	MB2BP004
	Yellow	MB2BP005
	Blue	MB2BP006



Description	Item #
Reset Plunger	MB2RPX
Spare Key No. 455	MB2K455
Padlocking Attachment for flush pushbuttons	MB2BZ6
Panel adapter 30mm - 22mm	MB2BZ41M



Legend Plates

Black coated aluminum legend plates with inscription in white.	MB2BY****
Emergency stop diameter 60mm yellow.	MB2AY9330
Emergency stop diameter 90mm yellow.	MB2AY8330



Text	Code****	Text	Code****
Blank	2301	Emergency Stop	2330
Start	2303	Stop	2304
Forward	2305	Reverse	2306
Up	2307	Down	2308
On	2311	Off	2312
Open	2313	Close	2314
Auto	2315	Hand	2316
Reset	2323	Inch	2321
Slow	2327	Fast	2328
Auto - Hand	2364	Auto - O - Hand	2385
Hand - Off - Auto	2387	Low	2333
High	2334	High Low	2335
Off On	2336	Stop Start	2337
Up Down	2338		





Description	Holes	Color	Item #
Control Station Plastic Enclosure IP65	1	Lid	MC1P
		Base	
	2	Lid	MC2P
		Base	
	3	Lid	MC3P
		Base	
	4	Lid	MC4P
		Base	
1	Lid	MC1PY	
	Base		
Control Station Metal Enclosure IP65	1	Lid	MC1M
		Base	
	2	Lid	MC2M
		Base	
	3	Lid	MC3M
		Base	
	4	Lid	MC4M
		Base	

Base Mounted contact Blocks for use with plastic enclosures



Description	Contact	Type	Item #
Plastic enclosure contact block	NO	Self Wiping silver contacts	MB2BE101BP
	NC	Self Wiping silver contacts	MB2BE102BP
	NO	Self Wiping gold contacts	MB2BE1016BP
	NC	Self Wiping gold contacts	MB2BE1026BP
Metal enclosure contact block	NO	Self Wiping silver contacts	MB2BE101BM
	NC	Self Wiping silver contacts	MB2BE102BM
	NO	Self Wiping gold contacts	MB2BE1016BM
	NC	Self Wiping gold contacts	MB2BE1026BM

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DISCONNECT SWITCHES



PROGRAM LOGIC CONTROLLERS



STACK LIGHTS



CONTROL TRANSFORMERS



TIMERS



TERMINAL BLOCKS



RELAYS



ENCLOSURES



