ELECTRIFICATION SMART POWER, DECEMBER 2019

Product Life Cycle Announcement

M Series Contactors

PRODUCTS

Legacy Product Line (to be replaced)		Replacement Product Line	
	Faston terminal contactors	X	No replacement
	Printed circuit (soldering pin) terminal contactors	X	No replacement
	MT0 overload relay		ABB T16 thermal overload relays
	Screw terminal contactors		ABB screw terminal M mini contactors (rebranded)
	Ring tongue terminal contactors		ABB screw terminal for ring tongue ferrules M mini contactors (rebranded)

See Appendix for affected catalog numbers.

LIFE CYCLE CHANGE SCHEDULE

	Classic	Limited	Last Time Buy	Obsolete
Faston & printed circuit terminal contactors	-	01/01/2020	03/01/2020	07/01/2020
MT0 overload relay	-	01/01/2020	03/01/2020	07/01/2020
Screw & ring terminal contactors	01/01/2020	07/01/2020	08/01/2020	12/01/2020
Series M (GE brand) starter accessories	-	01/01/2020	09/01/2020	01/01/2021
MBO – Spare coil	-	-	09/01/2020	01/01/2020

KEY LIFECYCLE DATES

	Price Increase (%)	Price Increase Effective	SPA Invalid	Not Returnable
Faston & printed circuit terminal contactors	*	*	TBA	TBA
MT0 overload relay	*	*	TBA	TBA
Screw & ring terminal contactors	*	*	TBA	TBA
Series M (GE brand) starter accessories	*	*	TBA	TBA
MBO – Spare coil	*	*	TBA	TBA

* Currently there are no planned price increases; however, this is subject to change at any time.

LIFE CYCLE PHASE DESCRIPTIONS

	Active	Classic	Limited	Obsolete
Status	Product is actively marketed and sold.	Product will be replaced but is still available for sales, mainly for spares and expansion projects.	Limited manufacturing/stock availability	Product is no longer available nor saleable.
Product available for sales	✓	✓	**Not guaranteed**	X
Spares availability for sales	✓	✓	✓	**Not guaranteed**
Product on stock	✓	✓	**Not guaranteed**	X
Available in online tools	✓	✓	✓	X
Maintenance and repair	✓	✓	✓	**Not guaranteed**

SMART POWER ANNOUNCEMENT PROCESS

No.	Lifecycle Status Change
1	Classic announcement (6 mo. before Classic start date)
2	Last Buy and Limited announcement (during the Classic phase, before Limited start date)
3	Obsolete announcement (6 mo. before Obsolete start date)
4	Obsolete final announcement (1 mo. before Obsolete date)

See Appendix for Revision Table.

PRODUCT SPECIFIC SUPPORT RESOURCES

REPLACEMENT PRODUCT:

Product website – https://new.abb.com/low-voltage/products/motor-protection

Catalog

http://search.abb.com/library/Download.aspx?DocumentID=2CDC103063C0201&LanguageCode=en&DocumentPartId=&Action=Launch

GENERAL CONVERSION SUPPORT RESOURCES

Need to find an ELIS to ABB cross reference?

Xref Lite Tool - https://www.lowvoltage-xref.abb.com/xreflite/

ABB Library - https://library.abb.com/en

Publication Library | ABB Industrial - https://www.geindustrial.com/publibrary

US Technical Support Contact - eppc.support@us.abb.com

Pricing

Currently no price increases are planned, but this is subject to change.
During limited and obsolete phase, any exception to price increase must be approved by Pricing Manager and Product Marketing Manager (PMM).

Inventory

Inventory levels will be actively managed to reduce and eliminate the stocking levels and stocked materials.

Please contact your ABB Customer Service Representative for any requests regarding pricing, inventory, product returns, rebates or stock rotational policies.

APPENDIX

APPENDIX A – AFFECTED LEGACY PRODUCTS CATALOG NUMBERS

Affected catalog numbers (downloadable Xcel sheet)

http://marketlink.tnb.com/wp-content/uploads/2019/10/Affected-Catalog-Numbers.xlsx

Xref Lite Tool (cross references) – https://www.lowvoltage-xref.abb.com/xreflite/

NOTE: As of Dec 2019, the products are not uploaded into the Xref Lite tool. When the ABB M series contactors product launch is completed, the legacy products and cross references will be uploaded.

Please see screenshots of affected catalog numbers below.

Three pole contactors

Max.operat.current		Admissible power AC3						Aux. contacts		Control circuit: Alternating current		Control circuit: Direct current	
Non-inductive loads	Motors <480V, 3 ~ 50/60Hz	1-phase		3-phase									
		115V	220V	220-240V	380-415V	440-480V	690V						
AC1 [2]	AC3 [3]	kW	kW	kW	kW	kW	kW	•3	•1	Cat. no. [1]	Pack	Cat. no. [1]	Pack
A	A	HP	HP	HP	HP	HP	HP	•4	•2	Ref. no. see bottom		Ref. no. see bottom	
Terminal: screw													
20	9	0.56	1.12	2.2	4	-	7.5	1	0	MC1A310AT ♦	20	MC1C310AT ♦	10
		0.75	1.5	3	5	5	-	0	1	MC1A301AT ♦	20	MC1C301AT ♦	10
20	12	0.75	2	3	5.5	-	7.5	1	0	MC2A310AT ♦	20	MC2C310AT ♦	10
		1	2.6	3	7.5	7.5	-	0	1	MC2A301AT ♦	20	MC2C301AT ♦	10
Terminal: ring terminal													
20	9	0.56	1.12	2.2	4	-	7.5	1	0	MC1A310AR ♦	20	MC1C310AR ♦	10
		0.75	1.5	3	5	5	-	0	1	MC1A301AR ♦	20	MC1C301AR ♦	10
20	12	0.75	2	3	5.5	-	7.5	1	0	MC2A310AR ♦	20	MC2C310AR ♦	10
		1	2.6	3	7.5	7.5	-	0	1	MC2A301AR ♦	20	MC2C301AR ♦	10
Terminal: faston 2x2.8 insulated [5]													
16 [4]	9	0.56	1.12	2.2	4	-	7.5	1	0	MC1A310AF ♦	20	MC1C310AF ♦	10
		0.75	1.5	3	5	5	-	0	1	MC1A301AF ♦	20	MC1C301AF ♦	10
		-	-	3	5.5	-	7.5	-	-				
		-	-	3	7.5	7.5	-	-	-				
Terminal: printed circuit													
20	9	0.56	1.12	2.2	4	-	7.5	1	0	MC1A310AI ♦	20	MC1C310AI ♦	10
		0.75	1.5	3	5	5	-	0	1	MC1A301AI ♦	20	MC1C301AI ♦	10
20	12	0.75	2	3	5.5	-	7.5	1	0	MC2A310AI ♦	20	MC2C310AI ♦	10
		1	2.6	3	7.5	7.5	-	0	1	MC2A301AI ♦	20	MC2C301AI ω	10
Spare coil										MB0A ♦	10	MB0C ♦	10

(1) To complete the catalogue number, replace the symbol ♦ by the code corresponding to the voltage and frequency of the control circuit (other voltages on request) (see A.34)
(2) Electrical endurance AC-1: MC1... 0.3×10^6 operations
MC2... 0.35×10^6 operations
(3) Electrical endurance AC-3 as per B10d: MC1...(9A) = 1.4×10^6 operations
MC2...(12A) = 1×10^6 operations
(4) Terminal with wire 1.5mm²: Ie = 16A
with wire 1mm²: Ie = 10A
Insulated terminal type B 2.8x0.8 and wire 1mm² Ie = 8A in accordance with DIN 46247.
(5) Fast-on 1x6.3 terminals on request (replace letter **F** by **H** in the catalogue number)

Interface contactors

Max. oper. current		Admissible power AC3						Aux. contacts		Voltage 24V D.C, coil 1.2W [1]			Voltage 24V D.C, coil 2W [2]		
Non-inductive load	Motors <480V, 3 ~ 50/60Hz AC3 [3]	1-phase		3-phase						Cat. no. [1]	Ref. no.	Pack	Cat. no. [1]	Ref. no.	Pack
		115V	220V	220-240V	380-415V	440-480V	690V	•3 •4	•1 •2						
AC1 A	A	kW HP	kW HP	kW HP	kW HP	kW HP	kW HP								
Terminal: screw															
20	9	0.56	1.12	2.2	4	-	7.5	1	0	MC1I310ATD	100572	10	MC1K310ATD	100576	10
		0.75	1.5	3	5	5	-	0	1	MC1I301ATD	100573	10	MC1K301ATD	100577	10
										-	-	-	MC1K400ATD	100569	10
20	12	0.75	2	3	5.5	-	7.5	1	0	MC2I310ATD	100559	10	MC2K310ATD	103590	10
		1	2.6	3	7.5	7.5	10	0	1	MC2I301ATD	100538	10	MC2K301ATD	103591	10
										-	-	-	MC2K400ATD	103037	10
Spare coil										MB0ID	100470	10	MB0KD	100471	10

(1) No possibility of adding instantaneous auxiliary contact blocks.
(2) Facility to mount an instantaneous auxiliary contact block of two contacts or two instantaneous auxiliary contact blocks of one contact.
(3) Electrical endurance AC-3 as per B10d: MC1...(9A) = 1.4 x 10^6 operations
MC2...(12A) = 1.4 x 10^6 operations

Four poles contactors

Max.oper.current		Admissible power AC3						Poles		Control circuit: Alternating current		Control circuit: Direct current	
Non-inductive load	Motors <480V, 3 ~ 50/60Hz	1-phase		3-phase									
		115V	220V	220-240V	380-415V	440-480V	690V						
AC1 (2)	AC3 (3)									Cat. no. (1)	Pack	Cat. no. (1)	Pack
A	A	kW HP	kW HP	kW HP	kW HP	kW HP	kW HP			Ref. no. see bottom		Ref. no. see bottom	
Screw terminal													
20	9	**AC1**											
		2.3	4.4	7.5	13	17	22.5	4	0	MC1A400AT ♦	10	MC1C400AT ♦	10
		-	-	-	-	-	-	3	1	MC1AC00AT ♦	10	MC1CC00AT ♦	10
								2	2	MC1AB00AT ♦	10	MC1CB00AT ♦	10
		AC3						0	4	MC1AA00AT ♦	10	MC1CA00AT ♦	10
		0.56	1.12	2.2	4	-	7.5						
		0.75	1.5	3	5	5	-						
20	12												
		AC1											
		2.3	4.4	7.5	13	17	22.5	4	0	MC2A400AT ♦	10	MC2C400AT ♦	10
		-	-	-	-	-	-	3	1	MC2AC00AT ♦	10	MC2CC00AT ♦	10
								2	2	MC2AB00AT ♦	10	MC2CB00AT ♦	10
		AC3											
		0.75	2	3	5.5	-	7.5						
		1	2.6	3	7.5	7.5	-						
Terminal: faston 2x2.8 insulated (5)													
16 (4)	9	**AC1**						4	0	MC1A400AF ♦	20	MC1C400AF ♦	10
		2.3	4.4	7.5	13	17	22.5	2	2	MC1AB00AF ♦	20	MC1CB00AF ♦	10
		-	-	-	-	-	-	0	4	MC1AA00AF ♦	20		
		AC3											
		0.56	1.12	2.2	4	-	7.5						
		0.75	1.5	3	5	5	-						
Terminal: printed circuit													
20	9	**AC1**						4	0	MC1A400AI ♦	20	MC1C400AI ♦	10
		2.3	4.4	7.5	13	17	22.5	2	2	MC1AB00AI ♦	20	MC1CB00AI ♦	10
		-	-	-	-	-	-	0	4	MC1AA00AI ♦	20		
		AC3											
		0.56	1.12	2.2	4	-	7.5						
		0.75	1.5	3	5	5	-						
Spare coil										MB0A ♦	10	MB0C ♦	10

(1) To complete the catalogue number, replace the symbol ♦ by the code corresponding to the voltage and frequency of the control circuit (see A.34)
(2) Electrical endurance AC-1: MC1... 0.3×10^6 operations
MC2... 0.35×10^6 operations
(3) Electrical endurance AC-3 as per B10d: MC1...(9A) = 1.4×10^6 operations
MC2...(12A) = 1×10^6 operations
(4) Terminal with wire 1.5mm²: Ie = 16A
with wire 1mm²: Ie = 10A
Insulated terminal type B 2.8x0.8 and wire of 1mm² Ie = 8A in accordance with DIN 46247.
(5) Faston 1x6.3 terminals on request, (replace letter **F** by **H** in the catalogue number).

Instantaneous auxiliary contact blocks

Front mounting

Number contacts	Combinations with basic contactor 10E	Contacts in acc. with EN 50012	Contacts in acc.with EN 50005	Aux.contacts 3-4	Aux.contacts 1-2	Cat. no.	Ref. no.	Pack
• Two or four additional contacts, to cover combinations of 3 or 5 contacts without increasing the surface are of the basic contactor								
Screw terminal								
2	21E	11		1	1	**MACN211AT**	100999	10
2	12E	02		0	2	**MACN202AT**	100998	10
2			20	2	0	**MARN220AT**	100994	10
2			11	1	1	**MARN211AT**	100993	10
2			02	0	2	**MARN202AT**	100992	10
4	41E	31		3	1	**MACN431AT**	100997	10
4	32E	22		2	2	**MACN422AT**	100996	10
4	23E	13		1	3	**MACN413AT**	100995	10
4			40	4	0	**MARN440AT**	100991	10
4			31	3	1	**MARN431AT**	100990	10
4			22	2	2	**MARN422AT**	100989	10
4			13	1	3	**MARN413AT**	100988	10
4			04	0	4	**MARN404AT**	100987	10
Ring terminal								
2	21E	11		1	1	**MACN211AR**	103557	10
2	12E	02		0	2	**MACN202AR**	103558	10
2			20	2	0	**MARN220AR**	103349	10
2			11	1	1	**MARN211AR**	103350	10
2			02	0	2	**MARN202AR**	103351	10
4	41E	31		3	1	**MACN431AR**	103559	10
4	32E	22		2	2	**MACN422AR**	103560	10
4	23E	13		1	3	**MACN413AR**	103561	10
4			40	4	0	**MARN440AR**	103352	10
4			31	3	1	**MARN431AR**	103353	10
4			22	2	2	**MARN422AR**	103354	10
4			13	1	3	**MARN413AR**	103355	10
4			04	0	4	**MARN404AR**	103300	10

Instantaneous auxiliary contact blocks (continued)

Lateral mounting

- One or two additional blocks, to cover combinations of 1 or 2 contacts without increasing the height of the basic unit contactor

Number contacts	Combinations with basic contactor 10E	Contacts in acc. with EN 50012	Contacts in acc.with EN 50005	Aux.contacts •3/•4	Aux.contacts •1/•2	Cat. no.	Ref. no.	Pack
Screw terminal								
1	20	10		1	0	**MACL110AT**	100560	10
1	11E	01		0	1	**MACL101AT**	100561	10
Ring terminal								
1	20	10		1	0	**MACL110AR**	103555	10
1	11E	01		0	1	**MACL101AR**	103556	10
Terminal: faston 2x2.8 insulated[1]								
1	20	10		1	0	**MACL110AF**	100562	10
1	11E	01		0	1	**MACL101AF**	100563	10
Terminal: printed circuit								
1	20	10		1	0	**MACL110AI**	100564	10
1	11E	01		0	1	**MACL101AI**	100565	10

- One or two additional blocks, when up to 6 or 7 contacts are needed (combination possible with frontal blocks)
- One or two additional blocks on both sides, to cover up to five contacts (combination possible only with lateral blocks)

Screw terminal								
1			10	1	0	**MARL110ATS**	100519	10
1			01	0	1	**MARL101ATS**	100520	10
Ring terminal								
1			10	1	0	**MARL110ARS**	103299	10
1			01	0	1	**MARL101ARS**	103298	10
Terminal: faston 2x2.8 insulated[1]								
1			10	1	0	**MARL110AFS**	100521	10
1			01	0	1	**MARL101AFS**	100522	10
Terminal: printed circuit								
1			10	1	0	**MARL110AIS**	100523	10
1			01	0	1	**MARL101AIS**	100524	10

(1) Terminal with wire 1mm²: Ie = 10A
Insulated terminal type B 2.8x0.8 with wire 1mm²: Ie = 8A, in accordance with DIN 46247

Accessories

	For use with:	Time	Function	Ue	Cat. no.	Ref. no.	Pack
Electronic timer block	Lateral or front fixing to the contactor						
	MCR..MC_ ...	0.5 - 60 seg.	delay ON	24... 250V AC/DC	**MREBC10AC2**	100541	10
	MCR..MC_ ...	0.2 - 24 seg.	delay ON	24...250V AC/DC	**MREBC20AC2**	100542	10
DIN-rail adaptor for electronic timer block	For fixing onto EN 50022-35						
	MREBC...				**MVB0R**	100543	10

	For use with:	Type	Control	Ue	Cat. no.	Ref. no.	Pack
Voltage suppressor block	Connection and (plug-in) fixing on to the connector						
	MCRA.MC_ ...	R/C	AC	12...60V 50/60Hz	**MP0AAE1**	100544	10
	MCRA.MC_ ...	R/C	AC	72...240 V 50/60 Hz	**MP0AAE2**	100545	10
	MCRC.MC_ ...	Diode	DC	6...240 V DC	**MP0CAE3**	100546	10
	MCRC.MC_ ...	Varistor	AC/DC	24-48V	**MP0DAE4**	100536	10
	MCRC.MC_ ...	Varistor	AC/DC	50-127V	**MP0DAE5**	204848	10
	MCRC.MC_ ...	Varistor	AC/DC	130-250V	**MP0DAE6**	204849	10

	For use with:	Phases	Terminal capacity	Ue	Cat. no.	Ref. no.	Pack
Pole paralleling links	To connect two, three or four phases in parallel						
	MC_ ...	2, 3, 4 (parallel)	Ø4.5mm - 16mm²		**MVP0C**	100600	10

	For use with:				Cat. no.	Ref. no.	Pack
Mechanical interlock	Mechanical interlock and pole jumpers						
	MCR, MC_ ...				**MMH0**	100547	10

	For use with:				Cat. no.	Ref. no.	Pack
Identification	MCR, MC_ ...	Labels (10 sheets of 260 labels)			**EAT 260**	100548	1
	MCR, MC_ ...	Labelling plate base. Plug-in labelling plate bases (50 pieces in one pack)			**SPR**	100549	1

REVISION TABLE

Rev. #	Date	Description of Revision
1	10/15/19	Product launch & life-cycle classic phase announcement
2	12/19/19	Last time buy & limited announcement, updated into ABB SP LCM template