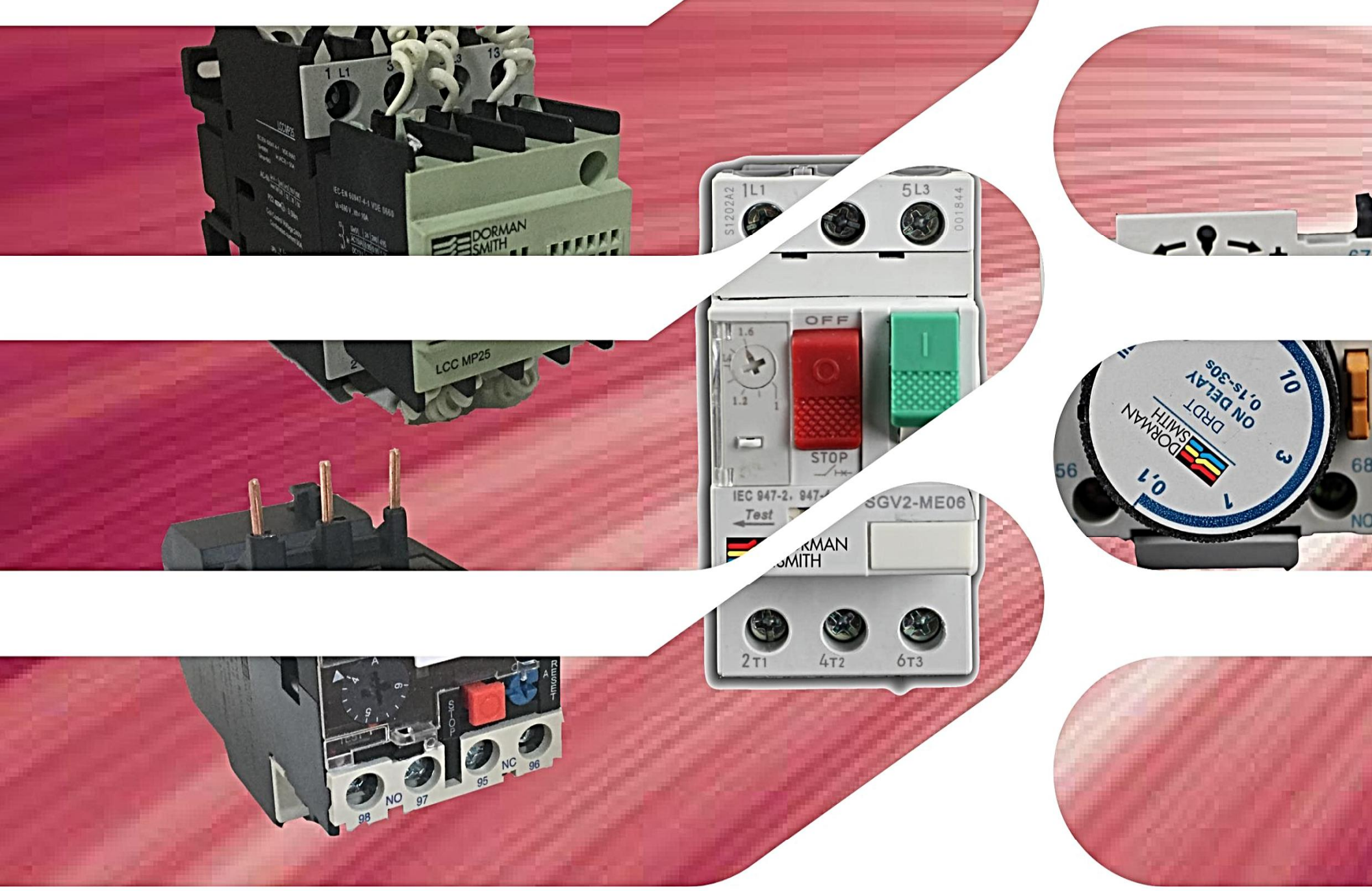
DORMAN SMITH

Loadlimiter

Low Voltage M frame Power & Mini contactor



OVER 130 YEARS OF ELECTRICAL EXCELLENCE

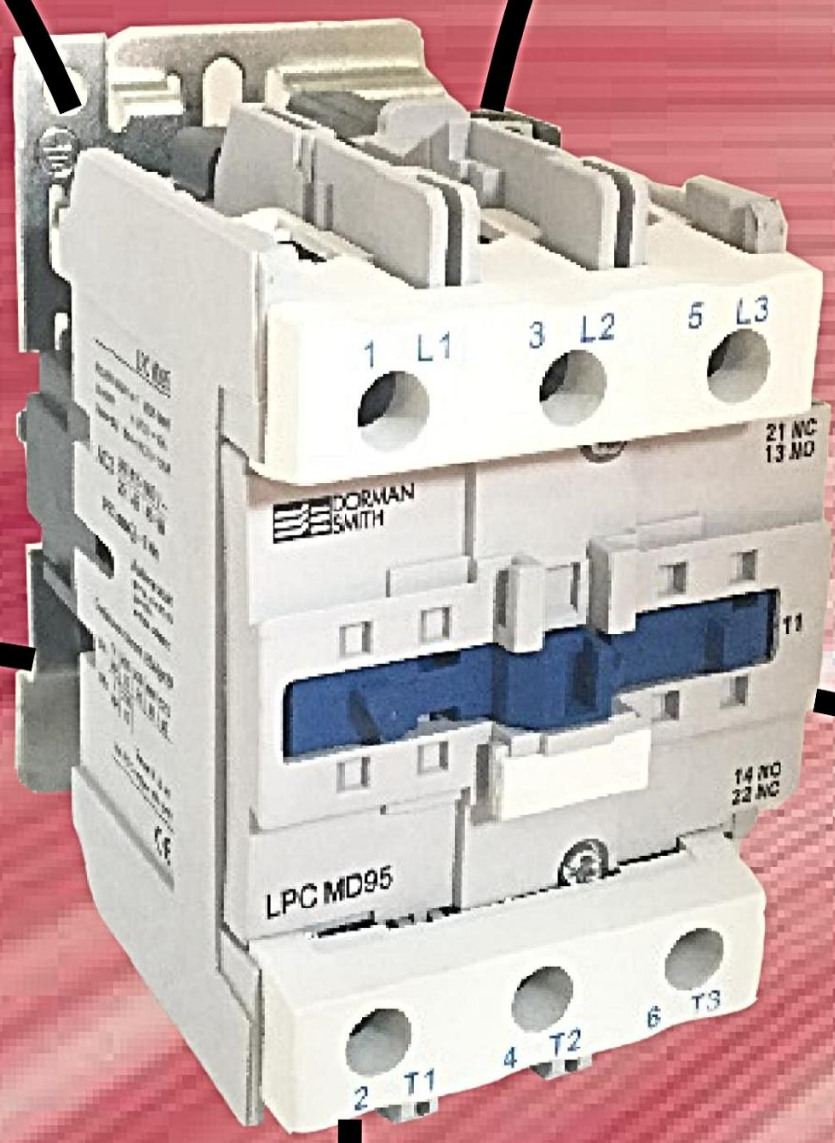
DORMAN SMITH

Pneumatic timer

Pneumatic timer block
ON / OFF delay

Mechanical Interloc

Mechanical interlock is used t
interlock two contactors.



Front Mount

Side Mount

Auxiliary contacts

Front Mounted Auxiliary contacts
for additional NO/NC contacts
requirements

Auxiliary contacts

Side Mounted Auxiliary conta
for additional NO/NC contac
requirements.

Thermal Overload

Protection against overload
& single phasing

OVER 130 YEARS OF ELECTRICAL EXCELLENCE

Motor Contactor

Key Features

- Complies to the requirements of IEC 60947-1,IEC 60947-4 and VDE-0660
- MD Frame Contactors are suitable for switching and control of three-Phase motor and other a.c loads
- MD9-MD95 suitable for 35mm Din rail mounting.
- Snap-on Auxillary contact front and side Mounting
- Snap-on Mechanical interlocking facilities available in MD Frame Motor contactor
- Number of auxiliary contacts can be extended up to 5 for MD09-MD32 & 6 Contacts for MD40-MD95 (see Accessories page)

MOTOR CONTACTORS TYPE MD - AC POWER/ AC CONTROL VOLTAGE - IEC/EN 60947-1, IEC/EN 60947-4

Model	Frame	Max. Ratings of three-phase motor at 50Hz/60Hz				Rated Operational current Ie/AC-3 at 415V (A)	Rated Operational current Ie/AC-1 at 415V (A)	Main Contact Poles	Standard Contl Voltage	Poles		In built Auxiliary Contacts		Dorman Smith code	MOQ	Unit Price
		At 240V (kW)	At 415V (kW)	At 440V (kW)	At 660V (kW)					NO	NC	NO	NC			
MD9	F1	2.2	4	4	5.5	9	20	3P/4P	240V AC	3	0	1	0	DOS-LPC/MD9/X/3/30/10/5	300	
										3	0	0	1	DOS-LPC/MD9/X/3/30/01/5	300	
										4	0	0	0	DOS-LPC/MD9/X/3/40/00/5	300	
										2	2	0	0	DOS-LPC/MD9/X/3/22/00/5	300	
MD12		3	5.5	5.5	7.5	12	20	3P/4P	240V AC	3	0	1	0	DOS-LPC/MD12/X/3/30/10/5	300	
										3	0	0	1	DOS-LPC/MD12/X/3/30/01/5	300	
										4	0	0	0	DOS-LPC/MD12/X/3/40/00/5	300	
										2	2	0	0	DOS-LPC/MD12/X/3/22/00/5	300	
MD18		4	9	9	10	18	32	3P	240V AC	3	0	1	0	DOS-LPC/MD18/X/3/30/10/5	300	
										3	0	0	1	DOS-LPC/MD18/X/3/30/01/5	300	
MD25		5.5	11	11	15	25	40	3P/4P	240V AC	3	0	1	0	DOS-LPC/MD25/X/3/30/10/5	300	
										3	0	0	1	DOS-LPC/MD25/X/3/30/01/5	300	
										4	0	0	0	DOS-LPC/MD25/X/3/40/00/5	300	
										2	2	0	0	DOS-LPC/MD25/X/3/22/00/5	300	
MD32		7.5	15	15	18.5	32	50	3P	240V AC	3	0	1	0	DOS-LPC/MD32/X/3/30/10/5	300	
										3	0	0	1	DOS-LPC/MD32/X/3/30/01/5	300	
MD40	F2	11	22	22	30	40	60	3P/4P	240VAC	3	0	1	1	DOS-LPC/MD40/X/3/30/11/5	200	
										4	0	0	0	DOS-LPC/MD40/X/3/40/00/5	200	
										2	2	0	0	DOS-LPC/MD40/X/3/22/00/5	200	
MD50		15	25	30	33	50	80	3P/4P	240VAC	3	0	1	1	DOS-LPC/MD50/X/3/30/11/5	200	
										4	0	0	0	DOS-LPC/MD50/X/3/40/00/5	200	
										2	2	0	0	DOS-LPC/MD50/X/3/22/00/5	200	
MD65		18.5	37	37	37	65	80	3P/4P	240VAC	3	0	1	1	DOS-LPC/MD65/X/3/30/11/5	200	
										4	0	0	0	DOS-LPC/MD65/X/3/40/00/5	200	
										2	2	0	0	DOS-LPC/MD65/X/3/22/00/5	200	
MD80		22	45	45	45	80A	110A	3P/4P	240VAC	3	0	1	1	DOS-LPC/MD80/X/3/30/11/5	80	
										4	0	0	0	DOS-LPC/MD80/X/3/40/00/5	80	
										2	2	0	0	DOS-LPC/MD80/X/3/22/00/5	80	
MD95		25	45	45	45	95A	125A	3P/4P	240VAC	3	0	1	1	DOS-LPC/MD95/X/3/30/11/5	80	
										4	0	0	0	DOS-LPC/MD95/X/3/40/00/5	80	
										2	2	0	0	DOS-LPC/MD95/X/3/22/00/5	80	

Motor Contactor

MOTOR CONTACTORS TYPE MD - AC POWER/ AC CONTROL VOLTAGE - IEC/EN 60947-1, IEC/EN 60947-4

Model	Frame	Max. Ratings of three-phase motor at 50Hz/60Hz				Rated Operational current Ie/AC-3 at 415V (A)	Rated Operational current Ie/AC-1 at 415V (A)	Main Contact Poles	Standard Contl Voltage	Poles		In built Auxiliary Contacts		Dorman Smith Code	MOQ	Unit Price
		At 240V (kW)	At 415V (kW)	At 440V (kW)	At 660V (kW)					NO	NC	NO	NC			
MD115	F3	30	59	59	80	115	200	3P/4P	240V AC	3	0	0	0	LPC/MD115/X/3/30/00/5	8	
										4	0	0	0	LPC/MD115/X/3/40/00/5	8	
MD150		40	80	80	100	150	250	3P/4P	240V AC	3	0	0	0	LPC/MD150/X/3/30/00/5	8	
										4	0	0	0	LPC/MD150/X/3/40/00/5	8	
MD185		55	100	100	120	185	275	3P/4P	240V AC	3	0	0	0	LPC/MD185/X/3/30/00/5	8	
										4	0	0	0	LPC/MD185/X/3/40/00/5	8	
MD225		63	110	110	129	225	315	3P/4P	240V AC	3	0	0	0	LPC/MD225/X/3/30/00/5	8	
										4	0	0	0	LPC/MD225/X/3/40/00/5	8	
MD265		75	140	140	180	265	350	3P/4P	240V AC	3	0	0	0	LPC/MD265/X/3/30/00/5	8	
										4	0	0	0	LPC/MD265/X/3/40/00/5	8	
MD330		100	180	180	220	330	400	3P/4P	240V AC	3	0	0	0	LPC/MD330/X/3/30/00/5	8	
										4	0	0	0	LPC/MD330/X/3/40/00/5	8	
MD400	F4	129	220	220	280	400	500	3P/4P	240V AC	3	0	0	0	LPC/MD400/X/3/30/00/5	4	
										4	0	0	0	LPC/MD400/X/3/40/00/5	4	
MD500		147	280	280	355	500	700	3P/4P	240V AC	3	0	0	0	LPC/MD500/X/3/30/00/5	4	
										4	0	0	0	LPC/MD500/X/3/40/00/5	4	
MD630	F5	200	375	375	450	630	900	3P/4P	240V AC	3	0	0	0	LPC/MD630/X/3/30/00/5	4	
										4	0	0	0	LPC/MD630/X/3/40/00/5	4	
MD780		220	425	425	475	780	1600	3P/4P	240V AC	3	0	0	0	LPC/MD780/X/3/30/00/5	2	
										4	0	0	0	LPC/MD780/X/3/40/00/5	2	

X - refer coil voltage selection table

Ordering code

LPC/MD9/X/3/30/10/5
1 2 3 4 5 6 7

7	:	5-50HZ & 6-60HZ
6	:	NO-NC (Built In)-- 0-Not Avialable
5	:	No. Of Main poles
4	:	No . Of Phase
3	:	Coil Voltage - Refer the coil voltage selection table
2	:	Frame & Rated current @ AC3
1	:	Loadlimiter Motor contactor

Control Coil Voltage selection table

Coil Voltage	24	36	48	110	127	220	230	240	380	415	440	480
50Hz	1	4	3	5	6	7	8	2	9	10	11	12
60Hz	1H	4H	3H	5H	6H	7H	8H	2H	9H	10H	11H	12H

50/60Hz contact Dorman Smith

DORMAN SMITH

Thermal overload relay

Key Features

- Complies to the requirements of EN/IEC 60947-4-1 and VDE-0660
- Loadlimiter Thermal overload relays are electromechanical device provides protection against overload and phase failure.
- Three pole relay with bimetal tripping elements
- Auto/Manual reset facility.
- 1NO+1NC auxiliary contact
- Economical overload protection relay up to 95A Contactor and reliable Electronic overload protection relays above 95A-630A
- Trip Indication

MOTOR CONTACTORS TYPE MK - AC POWER/ DC CONTROL VOLTAGE - IEC/EN 60947-1, IEC/EN 60947-4

Model	Frame	Current Rating (A)	Suitable	Auxiliary Contacts		Dorman Smith Code	MOQ	Unit Price
				NO	NC			
MD25	25	0.1 To 0.16	Suitable for MD9	1	1	DOS-LOR/MD25/0.1-0.16	300	
		0.16 To 0.25		1	1	DOS-LOR/MD25/0.16-0.25	300	
		0.25 To 0.4		1	1	DOS-LOR/MD25/0.25-0.4	300	
		0.4 To 0.63		1	1	DOS-LOR/MD25/0.4-0.63	300	
		0.63 To 1.0		1	1	DOS-LOR/MD25/0.63-1	300	
		1.0 To 1.6		1	1	DOS-LOR/MD25/1.0-1.6	300	
		1.25 To 2.0		1	1	DOS-LOR/MD25/1.25-2		
		1.6 To 2.5		1	1	DOS-LOR/MD25/1.6-2.5	300	
		2.5 To 4.0		1	1	DOS-LOR/MD25/2.5-4	300	
		4.0 To 6.0		1	1	DOS-LOR/MD25/4.0-6.0	300	
		5.5 To 8.0		1	1	DOS-LOR/MD25/5.5-8	300	
		7 To 10	Suitable for MD12	1	1	DOS-LOR/MD25/7-10	300	
		9 To 13	Suitable for MD18	1	1	DOS-LOR/MD25/9-13	300	
		12 To 18						
		17 To 25	Suitable for MD25	1	1	DOS-LOR/MD25/17-25	300	
MD36	36	22 To 33	Suitable for MD32	1	1	DOS-LOR/MD36/22-32	300	
		28To 36	Suitable for MD40	1	1	DOS-LOR/MD36/28-36	300	
MD95	95	23 To 32	Suitable for MD32	1	1	DOS-LOR/MD95/23-32	300	
		30 To 40	Suitable for MD40	1	1	DOS-LOR/MD95/30-40	300	
		37 To 50	Suitable for MD50	1	1	DOS-LOR/MD95/37-50	#	
		48 To 65	Suitable for MD65	1	1	DOS-LOR/MD95/48-65	#	
		55 To 70	Suitable for MD80	1	1	DOS-LOR/MD95/55-70	#	
		63 To 80		1	1	DOS-LOR/MD95/63-80	#	
		80 To 93	Suitable for MD95	1	1	DOS-LOR/MD95/80-93	#	
MF220	F220	80 To 100	Suitable for MD115-MD185	1	1	DOS-LOR/MF100/80-100	#	
		100 To 160		1	1	DOS-LOR/MF150/100-160	#	
		132 To 220	Suitable for MD225-M265	1	1	DOS-LOR/MF225/225-265	#	

Ordering code

LOR/MD25/0.16-0.25
1 2 3

3	:	Relay current setting
2	:	Frame & upper seting range
1	:	Loadlimiter Thermal overload Relay

- Contact Dorman Smith for MOQ

Motor Protection Circuit Breaker

Key Features

- Complies to the requirements of IEC 60947-2,IEC 60947-4-1
- Motor Protection Circuit Breakers are three pole Thermal-Magnetic circuit breakers.
- suitable for 35mm Din rail mounting.
- Short circuit protection by Magnetic non adjustable tripping elements under 3ms
- Protection in single phasing
- provides high short circuit breaking capacity upto 100kA
- Wide range of Add on accessories
- Available in open execution / in plastic enclosure
- ON / OFF actuation is by push button

MOTOR PROTECTION CIRCUIT BREAKER- IEC/EN 60947-2, IEC/EN 60947-1-4										
Model	Frame	3-phase motor rating AC-3 duty 415 V , 50Hz				Thermal Current Setting range	Magnetic tripping current	Dorman Smith Code	MOQ	Unit Price
		kW	HP	Icu KA	ICS (%)	A	A			
MPCB	1	0.02	-	100	100	0.1 - 0.16	1.5	LMPCB/M016	50	
		0.06	-	100	100	0.16 - 0.25	2.4	LMPCB/M025	50	
		0.09	-	100	100	0.25 - 0.40	5	LMPCB/M04	50	
		0.12	-	100	100	0.40 - 0.63	8	LMPCB/M063	50	
		0.25	0.33	100	100	0.63 - 1	13	LMPCB/M1	50	
		0.37	0.5	100	100	1 - 1.6	22.5	LMPCB/M2	50	
		0.75	1	100	100	1.6 - 2.5	33.5	LMPCB/M25	50	
		1.1	1.5	100	100	2.5 - 4	51	LMPCB/M4	50	
		2.2	3	100	100	4 - 6.3	78	LMPCB/M6	50	
		3	4.02	100	100	6-10	138	LMPCB/M10	50	
		5.5	7.5	15	50	9 - 14	170	LMPCB/M14	50	
		7.5	10	15	50	13 - 18	223	LMPCB/M18	50	
		9	12.5	15	40	17 - 23	327	LMPCB/M23	50	
		11	17.5	15	40	20 - 25	327	LMPCB/M25	50	
		15	20	10	50	24 - 32	416	LMPCB/M32	50	

Ordering code

LMPCB/MO16
1 2

2	:	Type & Rating
1	:	Loadlimiter Motor protection circuit breaker