



**Metasol**

LS Contactors

## Product Description & Specifications:

Features of the range include -

- The LS range of Contactors and overloads from 6 to 820A are a quality range of products
- In standard and mini frame, this range has a wide range of accessories
- All coils re 50/60Hz rated and are AC/DEC on units 225A and above
- Range includes -
- Contactors in ACX and DC to 820A
- Thermal and electronic overloads to suit
- Contactor relays
- Capacitor contactors



## 3 Pole Contactors

Part no	415V Kw rating	AC3 rating at 415V	AC1 rating at 415V	Auxiliary contacts
MC-9B(...V)	5	9	25	1 N/O 1 N/C
MC-12B(...V)	5.5	12	25	1 N/O 1 N/C
MC-18B(...V)	7.5	18	32	1 N/O 1 N/C
MC-22B(...V)	11	22	40	1 N/O 1 N/C
MC-32A(...V)	15	32	50	2 N/O 2 N/C
MC-40A(...V)	18.5	40	60	2 N/O 2 N/C
MC-50A(...V)	22	50	70	2 N/O 2 N/C
MC-65A(...V)	30	65	100	2 N/O 2 N/C
MC-75A(...V)	37	75	110	2 N/O 2 N/C
MC-85A(...V)	45	85	135	2 N/O 2 N/C
MC-100A(...V)	55	105	160	2 N/O 2 N/C
MC-150A(...V)	75	150	210	2 N/O 2 N/C
MC-185A(...V)	90	185	230	2 N/O 2 N/C
MC-225A(...V)	132	225	275	2 N/O 2 N/C
MC-330A(...V)	160	330	350	2 N/O 2 N/C
MC-400A(...V)	200	400	450	2 N/O 2 N/C
MC-500A(...V)	265	500	580	2 N/O 2 N/C
MC-630A(...V)	330	630	660	2 N/O 2 N/C
MC-800A(...V)	440	800	900	2 N/O 2 N/C



## LS Metasol- Overloads

Part no.	Suits contactor	Setting range A
<b>MT-32-0.16</b>	MC-9B to MC-40A	0.1 - 0.16
<b>MT-32-0.25</b>	MC-9B to MC-40A	0.16 - 0.25
<b>MT-32-0.4</b>	MC-9B to MC-40A	0.25 - 0.4
<b>MT-32-0.63</b>	MC-9B to MC-40A	0.4 - 0.63
<b>MT-32-1</b>	MC-9B to MC-40A	0.63 - 1
<b>MT-32-1.6</b>	MC-9B to MC-40A	1 - 1.6
<b>MT-32-2.5</b>	MC-9B to MC-40A	1.6 - 2.5
<b>MT-32-4</b>	MC-9B to MC-40A	2.5 - 4
<b>MT-32-6</b>	MC-9B to MC-40A	4 - 6
<b>MT-32-8</b>	MC-9B to MC-40A	5 - 8
<b>MT-32-9</b>	MC-9B to MC-40A	6 - 9
<b>MT-32-10</b>	MC-9B to MC-40A	7 - 10
<b>MT-32-13</b>	MC-9B to MC-40A	9 - 13
<b>MT-32-18</b>	MC-9B to MC-40A	12 - 18
<b>MT-32-22</b>	MC-9B to MC-40A	16 - 22
<b>MT-32-25</b>	MC-9B to MC-40A	18 - 25
<b>MT-32-32</b>	MC-9B to MC-40A	22 - 32
<b>MT-32-40</b>	MC-9B to MC-40A	32 - 40
<b>MT-63-36</b>	MC-50A to MC-65A	24 - 36
<b>MT-63-40</b>	MC-50A to MC-65A	28 - 40
<b>MT-63-50</b>	MC-50A to MC-65A	34 - 50
<b>MT-63-65</b>	MC-50A to MC-65A	45 - 65
<b>MT-95-50</b>	MC-75A to MC-100A	34 - 50
<b>MT-95-65</b>	MC-75A to MC-100A	45 - 65
<b>MT-95-75</b>	MC-75A to MC-100A	54 - 75
<b>MT-95-85</b>	MC-75A to MC-100A	63 - 85
<b>MT-95-95</b>	MC-75A to MC-100A	70 - 95
<b>MT-95-100</b>	MC-75A to MC-100A	80 - 100
<b>MT-150-85</b>	MC-130A to MC-150A	63 - 85
<b>MT-150-105</b>	MC-130A to MC-150A	80 - 105
<b>MT-150-130</b>	MC-130A to MC-150A	95 - 130
<b>MT-150-150</b>	MC-130A to MC-150A	110 - 150
<b>MT-225-125</b>	MC-185A to MC-225A	85 - 125
<b>MT-225-160</b>	MC-185A to MC-225A	100 - 160
<b>MT-225-185</b>	MC-185A to MC-225A	120 - 185
<b>MT-225-240</b>	MC-185A to MC-225A	160 - 240
<b>MT-400-185</b>	MC-265A to MC-400A	120 - 185
<b>MT-400-240</b>	MC-265A to MC-400A	160 - 240
<b>MT-400-330</b>	MC-265A to MC-400A	200 - 330
<b>MT-400-400</b>	MC-265A to MC-400A	260 - 400
<b>MT-800-300</b>	MC-500A to MC-800A	200 - 300
<b>MT-800-400</b>	MC-500A to MC-800A	260 - 400
<b>MT-800-600</b>	MC-500A to MC-800A	400 - 600
<b>MT-800-800</b>	MC-500A to MC-800A	520 - 800

## LS Electronic Overloads

Part no.	Suits contactor	Current setting range (A)
<b>GMP22-2PA 1.5A</b>	MC9B to MC-22B	0.3 - 1.5
<b>GMP22-2PA 5A</b>	MC9B to MC-22B	1 - 5
<b>GMP22-2PA 22A</b>	MC9B to MC-22B	4.4 - 22
<b>GMP40-2PA 20A</b>	MC32A to MC-40A	4 - 20
<b>GMP40-2PA 40A</b>	MC32A to MC-40A	8 - 40



## LS MEC Mini Contactors and Overloads

Part no.	415kW Rating	at 415V AC3 rating	at 415V AC1 rating	contacts Auxiliary
<b>GMC-6M-10</b>	2.2	6	20	1 N/O
<b>GMC-6M-01</b>	2.2	6	20	1 N/C
<b>GMC-9M-10</b>	4	9	20	1 N/O
<b>GMC-9M-01</b>	4	9	20	1 N/C
<b>GMC-12M-10</b>	5.5	12	20	1 N/O
<b>GMC-12M-01</b>	5.5	12	20	1 N/C
<b>GMC-16M-10</b>	7.5	16	20	1 N/O
<b>GMC-16M-01</b>	7.5	16	20	1 N/C

## Overloads to suit LS MEC Mini Contactors

Part no.	Suit contactor	Setting range A
<b>GTK-12M-0.16</b>	GMC..M	0.1 - 0.16
<b>GTK-12M-0.25</b>	GMC..M	0.16 - 0.25
<b>GTK-12M-0.4</b>	GMC..M	0.25 - 0.4
<b>GTK-12M-0.63</b>	GMC..M	0.4 - 0.63
<b>GTK-12M-1</b>	GMC..M	0.63 - 1
<b>GTK-12M-1.6</b>	GMC..M	1 - 1.6
<b>GTK-12M-2.5</b>	GMC..M	1.6 - 2.5
<b>GTK-12M-4</b>	GMC..M	2.5 - 4
<b>GTK-12M-6</b>	GMC..M	4 - 6
<b>GTK-12M-8</b>	GMC..M	5 - 8
<b>GTK-12M-9</b>	GMC..M	6 - 9
<b>GTK-12M-10</b>	GMC..M	7 - 10
<b>GTK-12M-13</b>	GMC..M	10 - 13
<b>GTK-12M-16</b>	GMC..M	12 - 16

## Timing Unit to suit LS MEC Mini Contactors

Part no.	Description
<b>AT-12M/1N</b>	On delay 0.1 - 30s 24 - 48V AC/DC
<b>AT-12M/1F</b>	Off delay 0.1 - 30s 24 - 48V AC/DC
<b>AT-12M/2N</b>	On delay 0.1 - 30s 100 - 220V AC
<b>AT-12M/2F</b>	Off delay 0.1 - 30s 100 - 220V AC

## Auxiliary Contacts

Part no.	Number of auxiliaries	Contact arrangement	fitting position	Rated operational A at 415V
Top mount to suit GMC..M mini contactors. Snap fit connection. 2 and 4 pole in different combinations				
<b>AU-1M11</b>	2	1 X N/O 1 X N/C	Side	6
<b>AU-2M20</b>	2	2 X N/O	Top	6
<b>AU-2M02</b>	2	2 X N/C	Top	6
<b>AU-2M11</b>	2	1 X N/O 1 X N/C	Top	6
<b>AU-4M40</b>	4	4 X N/O	Top	6
<b>AU-4M04</b>	4	4 X N/C	Top	6
<b>AU-4M31</b>	4	3 X N/O 1 X N/C	Top	6
<b>AU-4M13</b>	4	1 X N/O 3 X N/C	Top	6
<b>AU-4M22</b>	4	2 X N/O 2 X N/C	Top	6



## Auxiliary Contacts (cont.)

Top and side mount to suit MC-9B to MC-150A contactors Snap fit connection. 2 and 4 pole in different combinations

<b>UA-111</b>	2	1 X N/O 1 X N/C	Side	6
<b>AU-220</b>	2	2 X N/O	Top	6
<b>AU-202</b>	2	2 X N/C	Top	6
<b>AU-211</b>	2	1 X N/O 1 X N/C	Top	6
<b>AU-440</b>	4	4 X N/O	Top	6
<b>AU-404</b>	4	4 X N/C	Top	6
<b>AU-431</b>	4	3 X N/O 1 X N/C	Top	6
<b>AU-413</b>	4	1 X N/O 3 X N/C	Top	6
<b>AU-422</b>	4	2 X N/O 2 X N/C	Top	6

Side mount to suit MC-185A to MC-800A. Snap fit connection. 2 pole in different combinations

<b>AU-100</b>	2	1 X N/O 1 X N/C	L/H side	6
<b>AU-100E</b>	2	1 X N/O 1 X N/C	R/H side	6

## Terminal Covers for MC Contactors

<b>Part no.</b>	<b>Suits contactor</b>
<b>AP-220</b>	MC-185A to MC225A
<b>AP-400</b>	MC-265A to MC-400A
<b>AP-800</b>	MC-500A to MC-800A

## Insulation Barriers for MC contactors

<b>Part no.</b>	<b>Suits contactor</b>
<b>AI-180</b>	MC-185A to MC-400A
<b>AI-600</b>	MC-500A to MC-800A

## Separate Mounting Units for Overloads

<b>Part no.</b>	<b>Suits overload</b>
<b>UZ-32</b>	MT-32...
<b>UZ-63/S</b>	MT-63...
<b>UZ-95/S</b>	MT-95...
<b>UZ-150/S</b>	MT-150...

## Terminal Cover Units for Overloads

<b>Part no.</b>	<b>Suits overload</b>
<b>APT-225</b>	MT-225
<b>APT-400</b>	MT-400
<b>APT-600</b>	MT-800

## Remote Reset Units

<b>Part no.</b>	<b>Cable length</b>
<b>UM-4R</b>	400mm
<b>UM-5R</b>	500mm
<b>UM-6R</b>	600mm



## Mechanical Interlocks

Part no.	Suits contactor
<b>AR-12M</b>	GMC-6M to GMC-16M
<b>UR-02</b>	MC-9B to MC-100A
<b>AR-180</b>	MC-180A to MC-400A
<b>AR-600</b>	MC-500A to MC-800A

## Wiring Kits for Reversing Contactors

Part no.	Suits contactor
<b>UW-22</b>	MC-9B to MC-22B
<b>UW-32</b>	MC-32A to MC-40A
<b>UW-63</b>	MC-50 to MC-65A
<b>UW-95</b>	MC-75A to MC100A

## Surge Unit

Part no.	Composition	Rated Voltage	Internal elements		
			V	R	C
<b>US-1</b>	Varistor + RC	24V - 48VAC	120V	100 $\Omega$	0.1 uf
<b>US-2</b>	Varistor + RC	100 - 125VAC	270V	100 $\Omega$	0.1 uf
<b>US-3</b>	Varistor + RC	200 - 240VAC	470V	100 $\Omega$	0.1 uf
<b>US-4</b>	Varistor + RC	24 - 48VDC	120V	100 $\Omega$	0.47uf
<b>US-5</b>	Varistor + RC	100 - 125VDC	270V	100 $\Omega$	0.47uf
<b>US-6</b>	Varistor + RC	200 - 220VDC	470V	100 $\Omega$	0.47uf
<b>US-11</b>	Varistor	24-48VAC/DC	120V	-	
<b>US-12</b>	Varistor	100 - 125VAC/DC	270V	-	
<b>US-13</b>	Varistor	200 - 240VAC/DC	470V	-	
<b>US-14</b>	Varistor	380 - 440VAC/DC	1000V	-	
<b>US-22</b>	RC	100 - 125VAC	-	56 $\Omega$	1 uf

## LS MEC Contactor Relays

Part no.	at 415V AC1 Rating (A)	Contact arrangement
<b>GMR-4-40</b>	16A	4 N/O
<b>GMR-4-31</b>	16A	3 N/O 1 N/C
<b>GMR-4-22</b>	16A	2 N/O 2 N/C
<b>GMR-4-04</b>	16A	4 N/C
<b>GMR-4-13</b>	16A	1 N/O 3 N/C

## LS Metasol Range- Capacitor Contactors

Part no.	Maximum operating power (Kvar)			Rated current ( A )
	220 - 240V	400 - 440V	500 - 550V	
<b>MC12B/AC-9</b>	6.7	12.5	18	18
<b>MC18B/AC-9</b>	8.5	16.7	24	24
<b>MC22B/AC-9</b>	10	18	26	26
<b>MC32A/AC-9</b>	15	25	36	36
<b>MC40A/AC-9</b>	20	33.3	48	48
<b>MC50A/AC-50</b>	20	40	58	58
<b>MC65A/AC-50</b>	25	45.7	66	66
<b>MC75A/AC-50</b>	29.7	54	78	78
<b>MC85A/AC-50</b>	35	60	92	92
<b>MC100A/AC-50</b>	37	62	94	94



## 3 Phase Capacitors

Part no.	Description
<b>V-PHMKP440.3.28.1</b>	3 phase delta connected (X2 for 50 Kvar @ 415V eff)
<b>V-PHMKP525.3.20</b>	3 phase delta connected (X2 for 25 Kvar @ 415V eff)
<b>V-PHMKP525.3.25</b>	3 phase delta connected (X3 for 50 Kvar @ 415V eff)

## Reactive Relays

Part no.	Description
<b>V-MH6</b>	6 step micro processor relay ( basic type )
<b>V-MH12</b>	12 step micro processor relay ( basic type )
<b>V-PFC6</b>	6 step micro processor relay ( programmable type )
<b>V-PFC12</b>	12 step micro processor relay ( programmable type )

## 189 Hz Detuning Reactors

Part no.	Description
<b>LRD 415-12.5</b>	3 phase tuning reactor 12.5 kVAR 189hZ
<b>LRD 415-25</b>	3 phase tuning reactor 25 kVAR 189hZ
<b>LRD 415-50</b>	3 phase tuning reactor 50 kVAR 189hZ
<b>LRD 415-66.7</b>	3 phase tuning reactor 66.7 kVAR 189hZ

## PFC Modules

Part no.	Description
<b>PFC mod 12.5</b>	Assembled and wired 12.5 kVAR module
<b>PFC mod 25</b>	Assembled and wired 25 kVAR module
<b>PFC mod 50</b>	Assembled and wired 50 kVAR module

Please contact your distributor for pricing details.

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