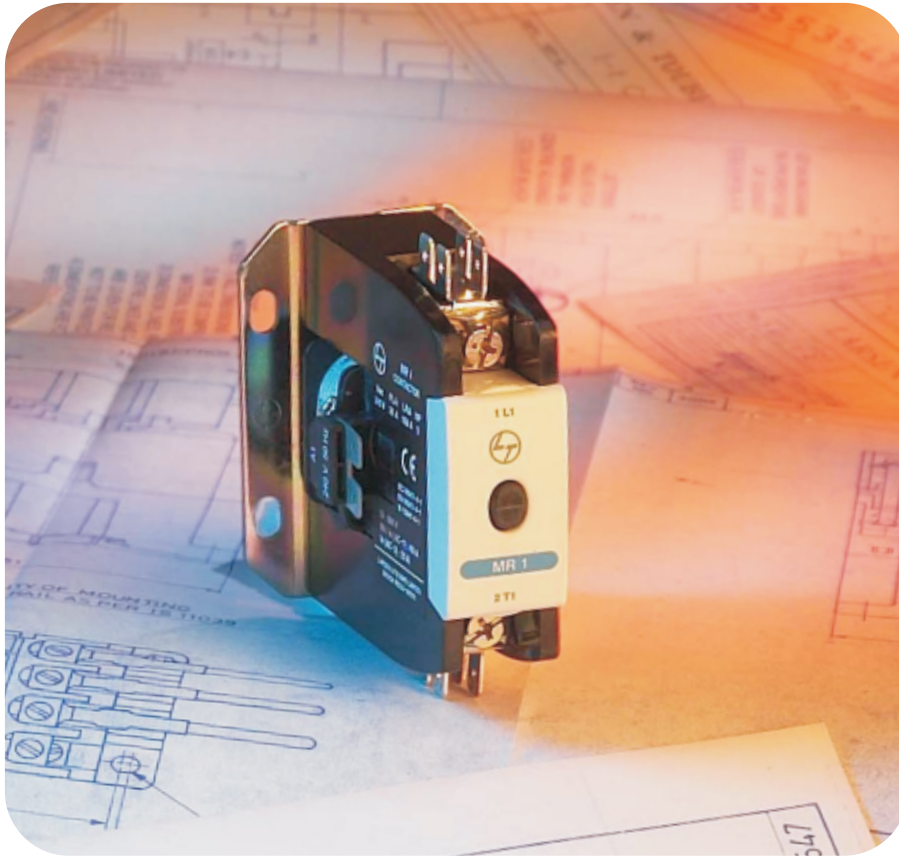




MR Contactors



LARSEN & TOUBRO LIMITED

It's all about Imagineering™

Larsen & Toubro Limited (L&T) is India's largest manufacturer of low voltage switchgear, offering a wide range of products. L&T switchgear services a wide base of customers varying from large industries, original equipments manufactures, panel builders, contractors and end users.

L&T now introduces new MR series of contactors. These contactors are rugged and suitable for single-phase applications.

Salient features

- Wide operating band upto 25A AC-3
- Chatter free operations
- High AC-1 rating ensures better overload capacity
- Fast-on-termination (Optional)

Applications

- Compressors in air-conditioning equipments.
- Single-phase pumps
- Single-phase power supply.
- Single-phase heater.



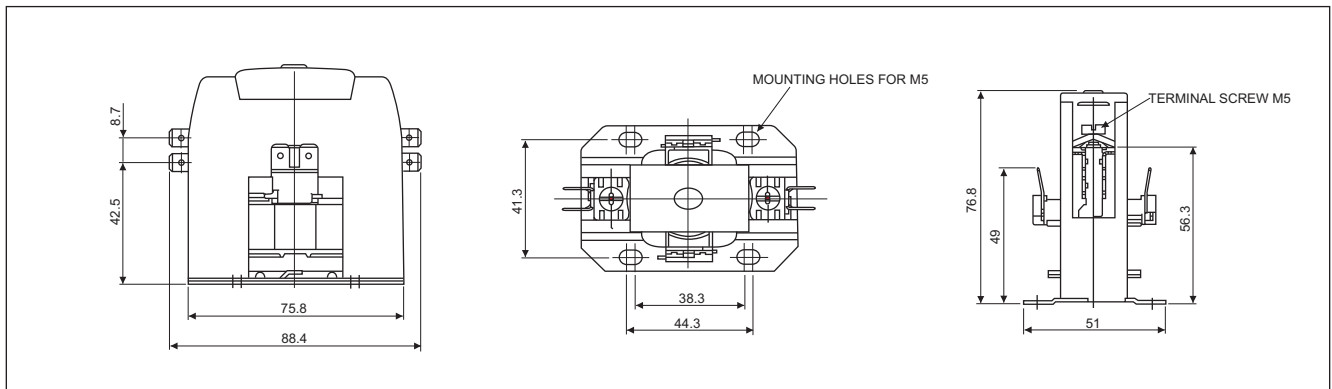
Technical Data

Type designation	Units	MR 11W	MR 11NW	MR 13	
Cat. No.		CS 94176	CS 94177	CS 94992	
Confirms to standards		IS 13947-4-1 / IEC 60947-4-1			
POWER CONTACTS					
No. of Poles		1	1+ shunted neutral	1	
Rated insulation voltage (Ui)	V	690			
Rated impulse withstand voltage (Uimp)	kV		8		
Conventional thermal current, Ith (AC-1)	A	63	63	63	
Motor duty : single phase 240V, 50Hz (AC-3)	A/hp/kW	25/5/3.7	25/5/3.7	40/7.5/5.5	
Motor duty : single phase 240V, 50Hz (AC-4)	A/hp/kW	25/5/3.7	25/5/3.7	40/7.5/5.5	
Short-circuit protection gG fuse at 240 V	A	63	63	100	
Mechanical life	Million	10	10	10	
Maximum frequency : (No Load)	Cy/h	7200			
	(AC-1)	Cy/h	3000		
	(AC-3)	Cy/h	750		
	(AC-4)	Cy/h	300		
Service temperature	°C	-5 °c to 55 °c			
Main terminal capacity					
	Solid conductor	Sq. mm	1X10		
	Multistrand	Sq. mm	2X10		
Coil					
Voltages available at 50Hz, Uc	V	24, 220, 240			
	Pick-up	VA	40		
	Hold-on	VA	8.5		
Limits of operation	W	2.5			
	Pick-up	(% Uc)	60-110	60-110	80-110
	Drop-off	(% Uc)	20-50	20-50	20-65

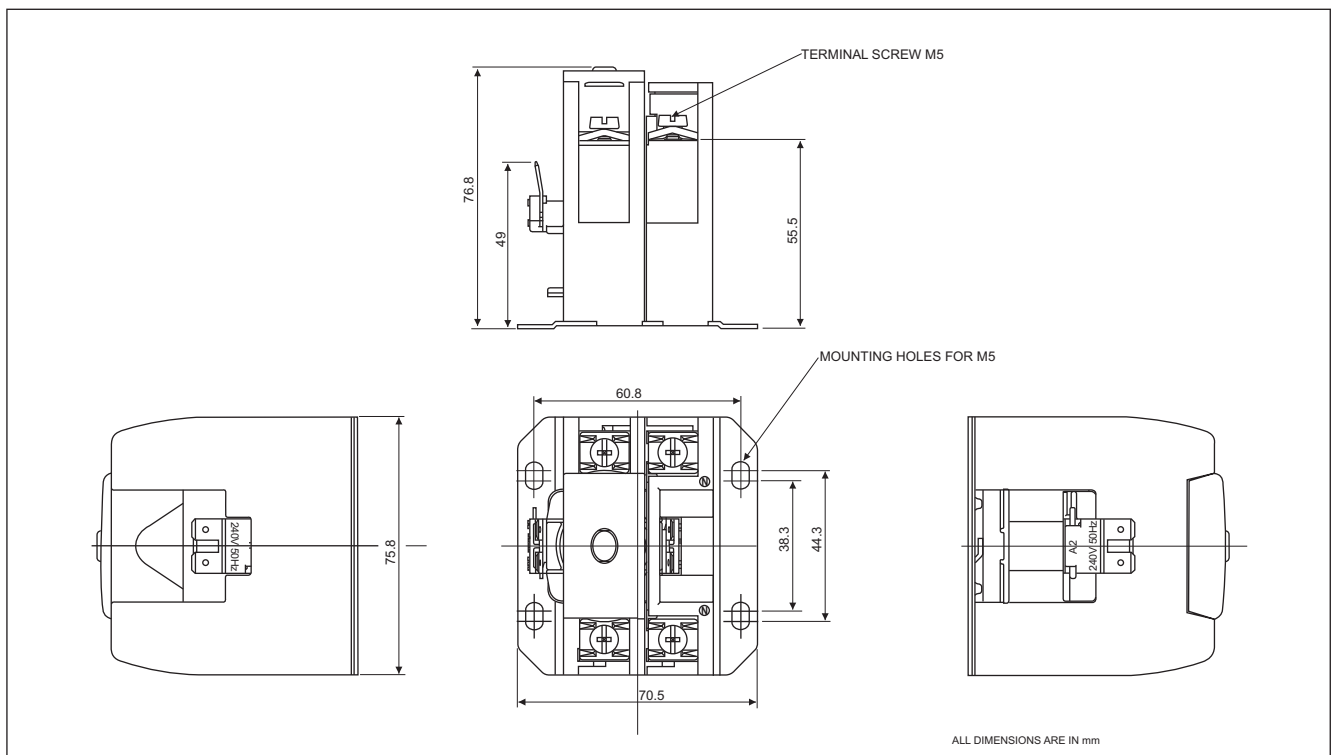
Auxiliary contact block		
Type designation	MR-A1	
Cat. No.	CS94179	
Confirms to standards	IS 13947-5-1 / IEC 60947-5-1	
For contactors	MR 11W / MR 11NW	
Contacts		
No. of poles		1
Contact details		1 NO
Rated insulation voltage, Ui	V	690
Conventional thermal current, Ith	A	10
Rated current at 240V, 50Hz Utilization category AC-15	A	4
Short-circuit protection gG fuse at 240 V	A	10
Electrical durability (AC-15) at 240v, 50Hz	Million	1
Maximum frequency of operation at UC for AC-15	Cy/h	1200
Service temperature	°C	-5 °c to 55 °c
Terminal capacity		
Solid Conductors	Sq.mm	2 X 2.5
Multi-stranded conductors	Sq.mm	2 X 2.5

OVERALL DIMENSIONS

MR 11W / MR 13



MR 11NW



Product improvement is a continuous process. For the latest information and special applications, please contact any of our offices listed here.

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