



**JSL INDUSTRIES LTD**

# “Jyoti” MOULDED CASE CIRCUIT BREAKER ( Upto 800 Amp )

## Introduction

Technical Data -JCDM 63,100,225

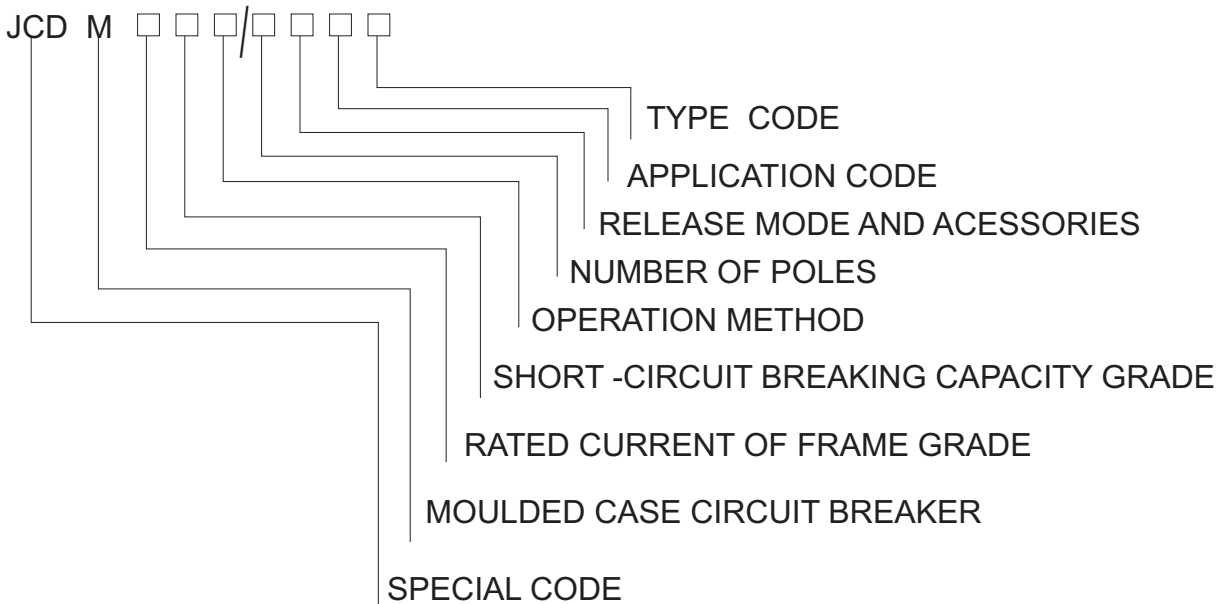
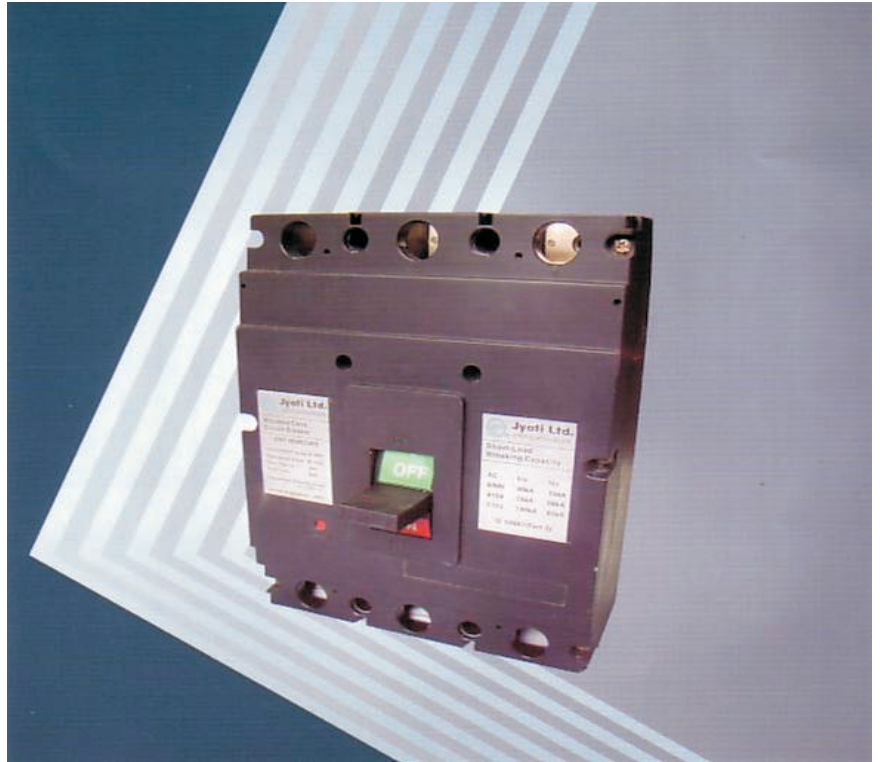
Technical Data -JCDM 400,630,800

## Tripping Characteristics



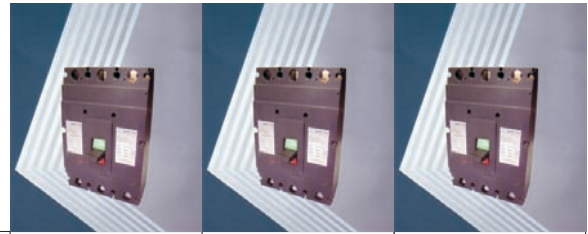
# 'Jyoti' Moulded Case Circuit Breaker ( Upto 800 Amp)

Type JCDM MCCB is mainly used in the AC distribution network upto 800 Amp and 690 V to distribute electric power. It is also used for the protection of equipments against damages due to overload, short circuit and under voltage condition. It can be used for protection of motor in the cases where they are used for less frequent startings.



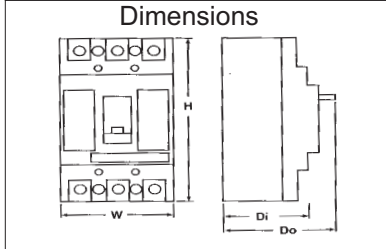
# 'Jyoti' Moulded Case Circuit Breaker

## TECHNICAL DATA TYPE JCDM-63 JCDM-100 JCDM-225



Electrical Characteristics as per IS : 13947-2

FRAME SIZE	63			100			225					
	L	M		L	M	H	L	M	H			
Number of Poles	2	3		2	3	4	2	3	4			
Rated Current I <sub>n</sub> at 40°C	A			6,10,16,20,32,40,50,63			10,16,20,32,40,50,63,80,100			100,125,160,180,200,225		
Rated Operational Voltage U <sub>e</sub> , AC 50/60 HZ	V			415			415			415		
Rated Insulation Voltage U <sub>i</sub>	V			800			800			800		
Rated impulse withstand voltage U <sub>imp</sub>												
Main Conducting paths	kV			8			8			8		
Auxiliary Circuits	kV			4			4			4		
Ultimate breaking capacity I <sub>cu</sub> (r.m.s.) upto 415V AC	kA			25	50		35	50	85	35	50	85
Service breaking capacity I <sub>cs</sub> ( kA)	kA			18	30		22	35	50	25	35	50
Endurance												
Mechanical	Ops.			7000			7000			6500		
Electrical	Ops.			3000			3000			1500		
Suitable for isolation				■			■			■		
<b>Overload Protection</b>												
Overload Release Setting	Fixed			■			■			■		
<b>Short Circuit Protection</b>												
Short Circuit Release Setting	Fixed			■			■			■		
<b>Internal Accessories</b>												
Undervoltage Release				■			■			■		
Shunt Release				■			■			■		
Auxiliary Switch				■			■			■		
Alarm Switch				■			■			■		
<b>External Accessories</b>												
Front Device ( Rotary Handle )				■			■			■		



Dimensions	W	76	76	92	92	92	107	107	107	107	140	140	140	182	182	182	210	210	210
H	135	135	150	150	150	165	165	165	165	257	257	257	270	270	270	270	280	280	280
Di	74	82	68	87	87	87	104	104	104	100	100	100	108	108	108	103	103	103	
Do	90	99	87	104	104	108	125	125	125	146	146	146	160	160	160	146	146	146	

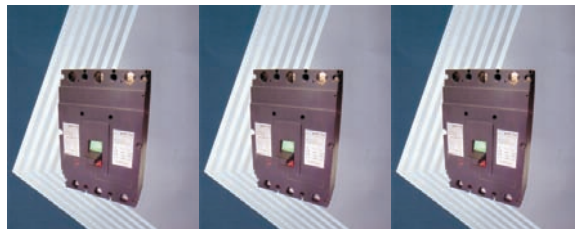
# TECHNICAL DATA

TYPE

JCDM-400

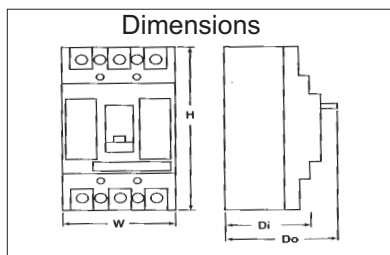
JCDM-630

JCDM-800



Electrical Characteristics as per IS : 13947-2

FRAME SIZE	400			630			800			
	L	M	H	L	M	H	L	M	H	
Number of Poles	3		4	3		4	3		4	
Rated Current I <sub>n</sub> at 40°C	A	225,250,315 350,400			400, 500 630			630, 700, 800		
Rated Operational Voltage U <sub>e</sub> , AC 50/60 HZ	V	415			415			415		
Rated Insulation Voltage U <sub>i</sub>	V	800			800			800		
Rated impulse withstand voltage U <sub>imp</sub>										
Main Conducting paths	kV	8			8			8		
Auxiliary Circuits	kV	4			4			4		
Ultimate breaking capacity I <sub>cu</sub> (r.m.s. upto 415V AC)	kA	50	65	100	50	65	100	50	65	100
Service breaking capacity I <sub>cs</sub> (kA)	kA	35	42	65	35	42	65	35	42	65
Endurance										
Mechanical	Ops.	5000			4000			4000		
Electrical	Ops.	1000			1000			1000		
Suitable for isolation		■			■			■		
<b>Overload Protection</b>										
Overload Release Setting	Fixed	■			■			■		
<b>Short Circuit Protection</b>										
Short Circuit Release Setting	Fixed	■			■			■		
<b>Internal Accessories</b>										
Undervoltage Release		■			■			■		
Shunt Release		■			■			■		
Auxiliary Switch		■			■			■		
Alarm Switch		■			■			■		
<b>External Accessories</b>										
Front Device ( Rotary Handle )		■			■			■		



W	76	76	92	92	92	107	107	107	140	140	140	182	182	182	210	210	210
H	135	135	150	150	150	165	165	165	257	257	257	270	270	270	280	280	280
Di	74	82	68	87	87	87	104	104	100	100	100	108	108	108	103	103	103
Do	90	99	87	104	104	108	125	125	146	146	146	160	160	160	146	146	146

Home

# TRIPPING CHARACTERISTICS OF JCDM-63 TYPE MCCBs

