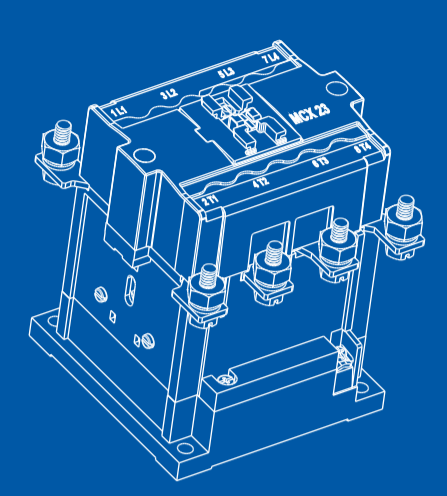


CONTACTOR

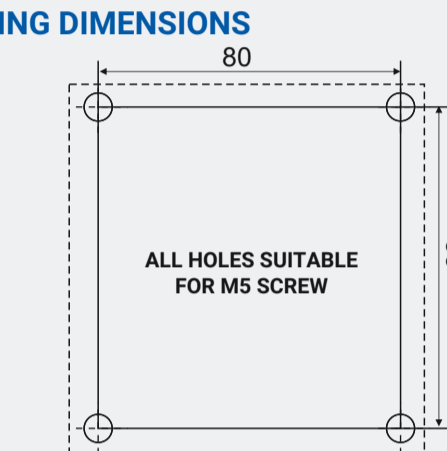
MCX 22/ MCX 23



INSTRUCTION MANUAL



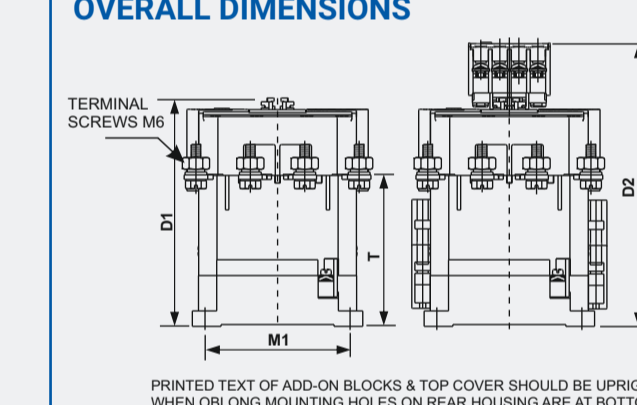
MOUNTING DIMENSIONS



SCALE 1:2
ALL DIMENSIONS ARE IN mm.

TERMINATION CAPACITY AND RECOMMENDED TIGHTENING TORQUE		
Details	MCX 22	MCX 23
Cable with Lug (mm ²)	1 x 35	1 x 50
Busbar	-	2 x (12.5 x 3)
Tightening Torque (Main Pole)	4.5	
Tightening Torque (Aux Pole/ Coil/ Add on block)	1.1	

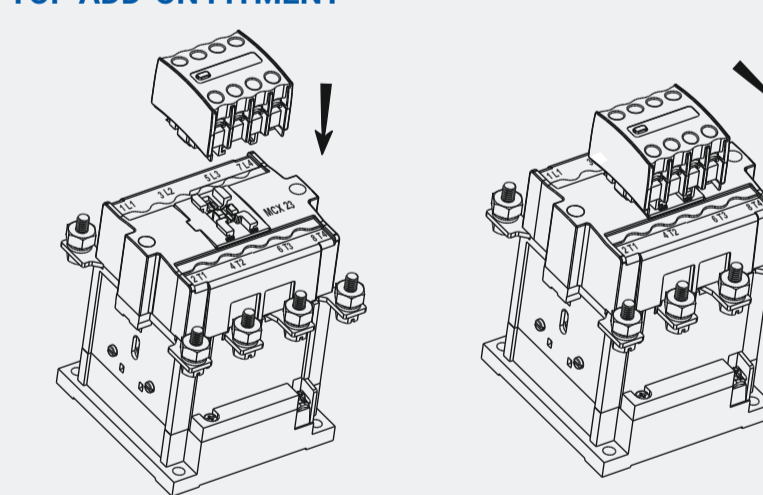
OVERALL DIMENSIONS



LABEL	MCX 22/23
W1	103
W2	108
H	109
D1	124
D2	156
M1	80
M2	85
T	83.5
P	30
S	96

ALL DIMENSIONS ARE IN mm.

TOP ADD-ON FITMENT



- PLACE ADD-ON AS SHOWN
- PUSH ADD-ON TO ENGAGE COMPLETELY

REMOVAL : LIFT LOCK OF ADD-ON & FOLLOW THE SEQUENCE IN REVERSE ORDER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

DANGER

- It is mandatory to read the detailed instruction sheet of this device and to look at the device to become familiar with it before attempting to install it, operate it, repair it or perform maintenance on it.
- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E, CSA Z462, NOM-029-STPS or local equivalent.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors, and covers before turning on power to this equipment.
- Beware of potential hazards, and carefully inspect the work area for tools and objects that may have been left inside the equipment.
- Install the device so minimum clearance distance to grounded metal is maintained.

Failure to follow these instructions will result in death or serious injury.

HAZARD OF FIRE

WARNING

- Use only specified wiring cross-section with the equipment and comply with the specified wiring requirements.
- Tighten the connections to the specified torque values.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

HAZARD OF EQUIPMENT DAMAGE

CAUTION

- Install the Contactor using mounting screws to fix it firmly on the mounting plate.
- Refer recommended type 2 chart for selecting back-up device.

HAZARD OF CLOSING ON ELECTRICAL FAULT

- Do not close the device without first inspecting and, if necessary, repairing the downstream electrical equipment.

HAZARD OF ELECTRICAL FAILURE

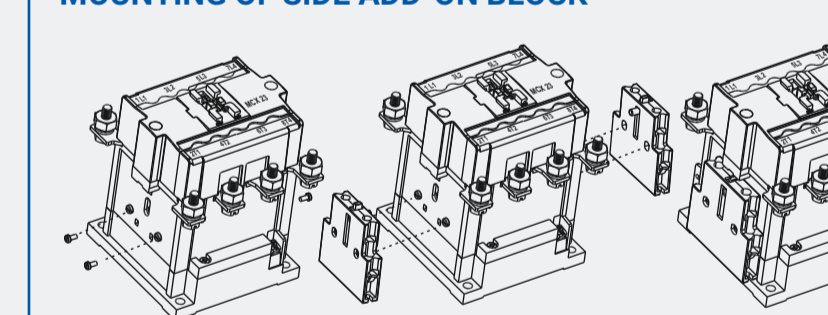
- For contactor, it is recommended to use Voltage Monitoring Relay supply voltage is beyond operating limits of contactor.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

ACCESSORIES AND SPARES

Accessories Description	Catalogue No.	Terminal Markings
Auxiliary Contact Block	CS941120000	53-54, 63-64, 73-74, 83-84
Top 4NO - 4 Pole	CS941130000	53-54, 61-62, 73-74, 83-84
Top 3NO+1NC - 4 Pole	CS941140000	53-54, 61-62, 71-72, 83-84
Top 2NO+2NC - 4 Pole	CS941150000	53-54, 61-62, 71-72, 81-82
Top 4NC - 4 Pole	CS941160000	51-52, 61-62, 71-72, 81-82
Top 2 NO - 2 Pole	CS941170000	53-54, 63-64
Top 1NO+1NC - 2 Pole	CS941180000	53-54, 61-62
Top 2 NC - 2 Pole	CS941190000	51-52, 61-62
Top 1 NO - 2 Pole	CS941200000	53-54
Top 1 NC - 2 Pole	CS941210000	61-62
Side 1NO+1NC (Left)	CS942010000	13-14, 21-22
Side 1NO+1NC (Right)	CS942020000	43-44, 31-32
Mech. Interlock Kit-MCX M3	CS930950000	
Surge Suppressor(24-48V)	CS94163J000	MNX - S3
Surge Suppressor(110-240V)	CS94163B000	
Surge Suppressor(360-415V)	CS94163D000	
Spares Description		
Spare Coil-MCX 22/23	ST91291* (ADD 4 DIGIT COIL VOLTAGE SUFFIX)	
Spare Contacts Kit MCX 22	CS943310000	
Spare Contacts Kit MCX 23	CS900780000	

MOUNTING OF SIDE ADD-ON BLOCK



- REMOVE EXISTING SCREWS FROM CONTACTOR
- FOR BOTH SIDE ADD-ON BLOCKS, ALIGN THE ACTUATOR OF ADD-ON WITH HOLE ON THE CONTACT BRIDGE OF CONTACTOR.
- FIX THE ADD-ON ON CONTACTOR WITH SCREWS PROVIDED ALONG WITH ADD-ON.

NOTE : ENSURE THAT THE ACTUATOR OF THE ADD-ON BLOCKS & THE BRIDGE MOVE FREELY

MIL KIT MOUNTING

MECHANICAL INTERLOCK KIT CONTAIN:

- MECHANICAL INTERLOCK ASSEMBLY - 1 No
- GUIDE ASSEMBLY - 4 Nos
- CONTACTOR MOUNTING SCREWS & WASHERS - 8 Nos
- SIDE ADD-ON BLOCK - 4 Nos

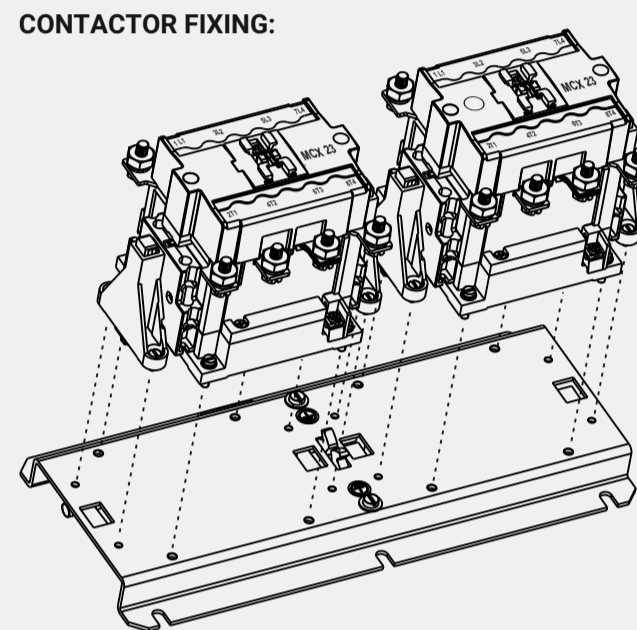
MECHANICAL INTERLOCK KIT MOUNTING PROCEDURE:

- SIDE ADD-ON BLOCK: MOUNT SIDE ADD-ON BLOCK ON BOTH SIDE OF CONTACTOR-1. REFER SKETCH AS PER ①.
- GUIDE ASSEMBLY: INSERT PROJECTED PORTION OF GUIDE ASSEMBLY IN THE HOLE OF ADD-ON BLOCK. MOUNT GUIDE ASSEMBLY ON BOTH SIDE OF CONTACTOR-1. REFER SKETCH AS PER ②.
- CONTACTOR MOUNTING: PLACE ABOVE CONTACTOR-1 ON ONE SIDE OF BASE PLATE ASSEMBLY. USE SCREWS AND WASHERS (PROVIDED WITH MIL KIT) TO FIX CONTACTOR ON BASE PLATE.
- REPEAT ABOVE STEP 1 AND 2 FOR CONTACTOR-2.
- PLACE AND FIX CONTACTOR-2 ON ANOTHER SIDE OF BASE PLATE. REFER SKETCH AS PER ③.

MECHANICAL INTERLOCK KIT WITH CONTACTORS ARE NOW READY FOR INSTALLATION.

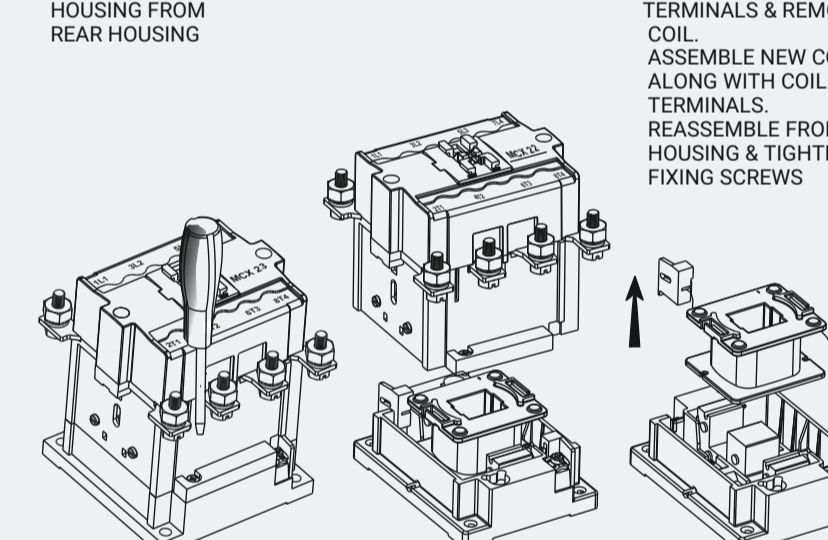
MIL KIT MOUNTING

CONTACTOR FIXING:



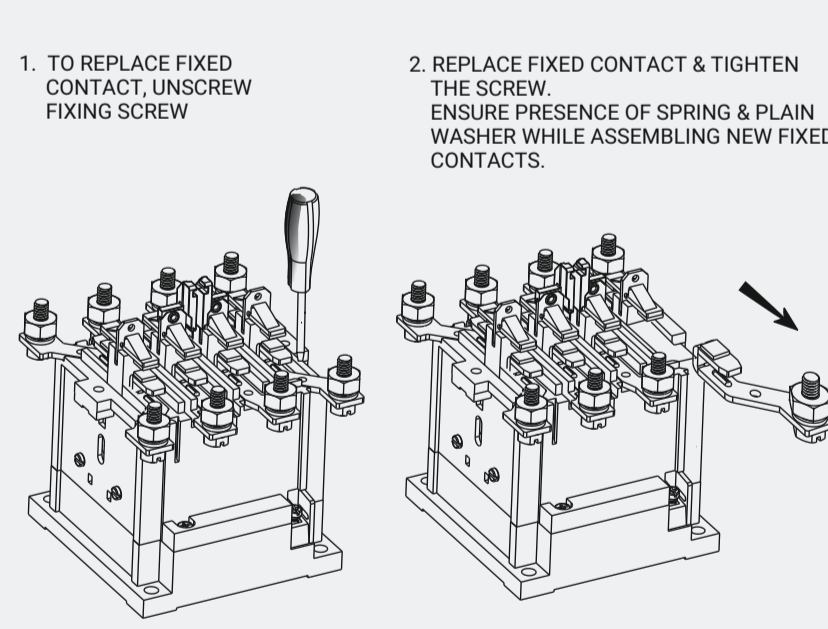
COIL REPLACEMENT

- UNSCREW FRONT HOUSING FROM REAR HOUSING
- REMOVE FRONT HOUSING
- SLIDE OUT COIL TERMINALS & REMOVE COIL. ASSEMBLE NEW COIL ALONG WITH COIL TERMINALS. REASSEMBLE FRONT HOUSING & TIGHTEN FIXING SCREWS



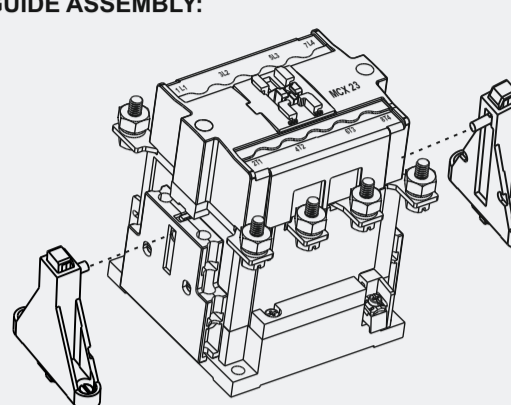
CONTACT INSPECTION AND REPLACEMENT

- TO REPLACE FIXED CONTACT, UNSCREW FIXING SCREW
- REPLACE FIXED CONTACT & TIGHTEN THE SCREW. ENSURE PRESENCE OF SPRING & PLAIN WASHER WHILE ASSEMBLING NEW FIXED CONTACTS.



MIL KIT MOUNTING

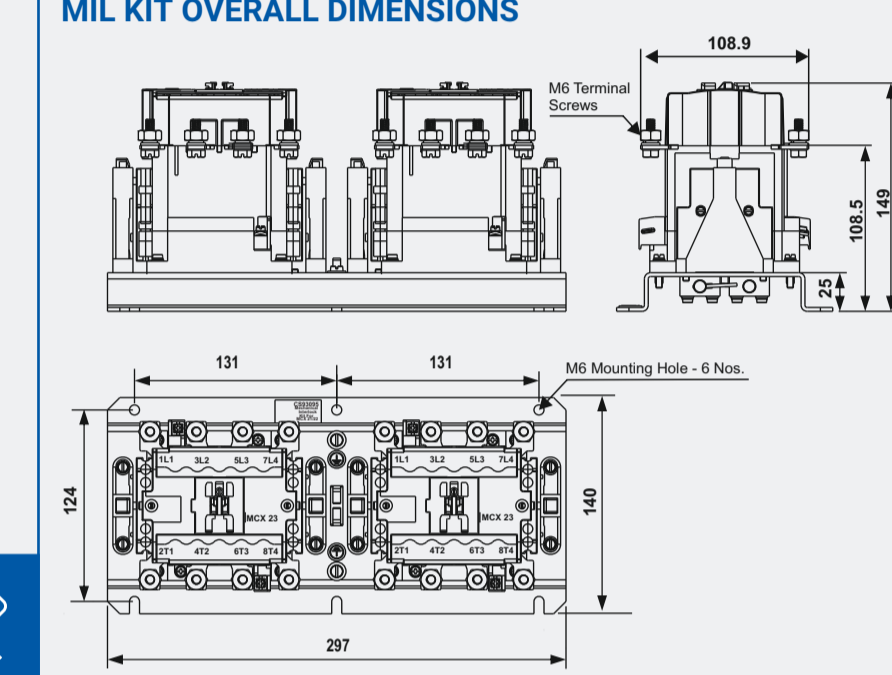
MOUNTING OF GUIDE ASSEMBLY:



INSERT PROJECTED PORTION OF GUIDE ASSEMBLY IN THE COUNTERBORE HOLE OF ADD-ON BLOCK.

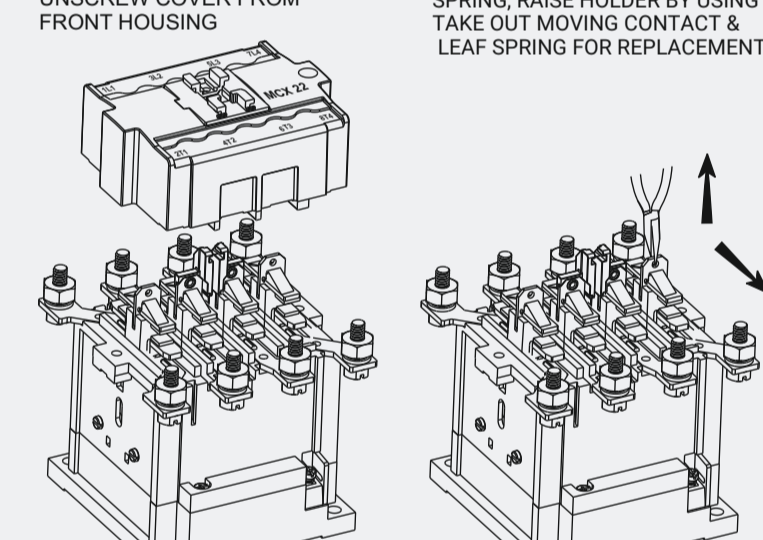
MOUNT GUIDE ASSEMBLY ON BOTH SIDE OF CONTACTOR

MIL KIT OVERALL DIMENSIONS



CONTACT INSPECTION AND REPLACEMENT

- REMOVE TOP ADD-ON THEN UNSCREW COVER FROM FRONT HOUSING
- TO REMOVE MOVING CONTACT & LEAF SPRING, RAISE HOLDER BY USING PLIER. TAKE OUT MOVING CONTACT & LEAF SPRING FOR REPLACEMENT.



"This literature gives information to user about product installation, operation maintenance and disposal. This information is not exhaustive and should customer require further information, in specific cases, customer may contact customer interaction cell."

"The manufacturer assumes no responsibility for injuries, losses, damages to human beings and/or equipments due to inappropriate application of instructions, provided herein."

"Product development is a continuous process. The information given in this literature is Subject to change. For latest information the customer may contact customer interaction cell."

"Product images are indicative"

CUSTOMER INTERACTION CELL (CIC)

Phone No: 022 6932 7800
E-mail: CIC@LK-EA.COM
Website: WWW.LK-EA.COM



Electrical & Automation
Electrical Standard Products
A/600, SHIL - MAHAPE ROAD,
TTC Industrial Area, MIDC Thane,
MUMBAI, MAHARASHTRA, 400710

VER. 1.0

THIS DRAWING AND DESIGN MUST NOT BE COPIED WITHOUT PERMISSION IN WRITING.

MATERIAL: 80 gsm MAPLITHO PAPER
NOTE : UNLESS OTHERWISE SPECIFIED LAYOUT, COLOUR SCHEME, FONT STYLES AND FOLDING SEQUENCE CONFORM TO CD01020

This component does not use any material listed hazardous by RoHS directives

DATE :		L&T Electrical & Automation (A Unit of Schneider Electric India Private Limited)
SCALE: 1:1		
OFN/RLM No.:		
SOFTWARE: Coreldraw		
MODEL :		Product Insert CONTACTOR (MCX22-23)
PROCESS SHEET :	DEPT: 300202316	
TCN 500001470535 13-05-2024 SS	DRAWN BY:	SP02257
REVISIONS	CHECKED BY:	
	APPROVED BY:	
		PROJECTION
		SHEET OF