SIEMENS

Data sheet

3MU7310-2FA0

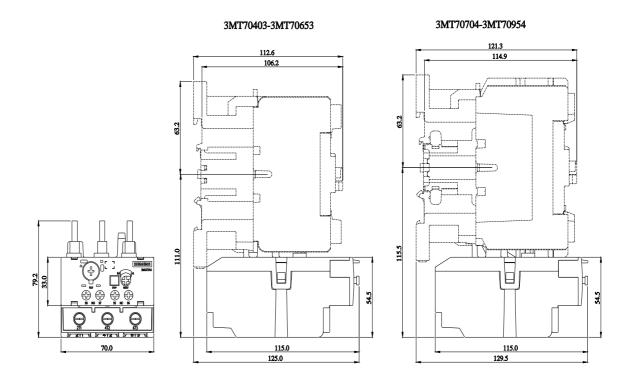


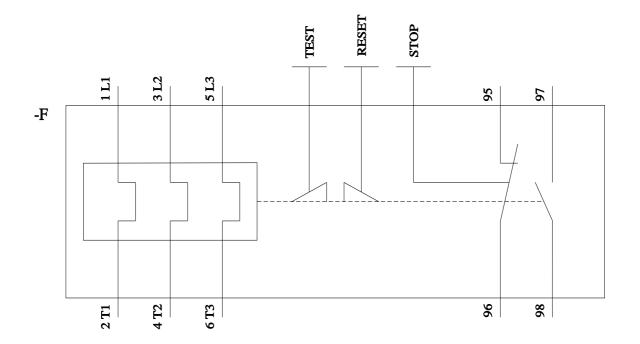
Thermal overload relay RANGE 63-80A Class 10 For mounting on 3MT7 contactors Size 3,4 Main circuit: Screw Auxiliary circuit: Screw Manual Automatic reset

product brand name	SINOVA		
product designation	Thermal overload relay		
product type designation	3MU7		
General technical data			
size of overload relay	Size 3		
size of contactor can be combined company-specific	3MT7 Size 4		
power loss [W] for rated value of the current at AC in hot operating state	24.6 W		
• per pole	8.2 W		
insulation voltage with degree of pollution 3 at AC rated value	690 V		
surge voltage resistance of main circuit rated value	6 kV		
shock resistance according to IEC 60068-2-27	15g / 11 ms		
reference code according to IEC 81346-2	F		
Substance Prohibitance (Date)	07/01/2022		
Weight	0.491 kg		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-5 +55 °C		
during storage	-25 +70 °C		
temperature compensation	-5 +55 °C		
relative humidity during operation	10 95 %		
Main circuit			
number of poles for main current circuit	3		
type of voltage for main current circuit	AC		
operating voltage			
 rated value 	690 V		
 at AC-3 rated value maximum 	690 V		
operating frequency rated value	50 60 Hz		
operational current rated value	80 A		
operational current at AC-3 at 400 V rated value	80 A		
operating power at AC-3			
• at 400 V rated value	37 kW		
Auxiliary circuit			
number of NC contacts for auxiliary contacts	1		
• note	for contactor disconnection		
number of NO contacts for auxiliary contacts	1		
• note	for message "Tripped"		
operational current of auxiliary contacts at AC-15			
• at 24 V	4.17 A		

1440.14			0.04.4		
	• at 110 V		3.64 A 0.7 A		
	• at 690 V				
-	operational current of auxiliary contacts at DC-13				
• at 24 V	• at 24 V		4.17 A		
• at 110 V	● at 110 V		0.45 A		
• at 220 V	• at 220 V		0.2 A		
Short-circuit protection			_		
design of the fuse link					
	 for short-circuit protection of the main circuit with type of assignment 2 required 		gG: 125 A, Type-2 co-ordination		
 for short-circuit pro 	for short-circuit protection of the auxiliary switch required		fuse gG: 10 A		
Installation/ mounting/ di	mensions				
mounting position	mounting position		22.5° Inclination forward and backward & \pm 90° rotation, in relation to normal vertical mounting plane		
fastening method			Contactor mounting		
height			79.5 mm		
width			70 mn	70 mm	
depth			115 mm		
Connections/ Terminals					
type of electrical conne	ction				
•••	for main current circuit		screw	screw-type terminals	
 for auxiliary and co 	for auxiliary and control circuit		screw-type terminals		
type of connectable cond		main contacts			
 solid or stranded 			1x (4 35 mm²)		
 finely stranded with 	h core end processing			5 35 mm²)	
	type of connectable conductor cross-sections for auxiliary		, , , , , , , , , , , , , , , , , , ,		
 solid or stranded 			1x (1 4 mm²)		
	finely stranded with core end processing		1x (1 4 mm ²)		
tightening torque				ix (1 7 iiiii)	
	for main contacts with screw-type terminals		9 N·m		
			1.2 N·m		
	for auxiliary contacts with screw-type terminals design of the thread of the connection screw				
for main contacts		M10			
	 of the auxiliary and control contacts 		M3.5		
Electrical Safety			10.0		
protection class IP on the front according to IEC 60529		IP20			
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front			
Display			inger		
display version for switch	ing status		Trin in	dicator	
Approvals Certificates					
General Product Ap-					
proval	Test Certificates	other		Environment	
C E EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmatio</u>	<u>n</u>	Environmental Con- firmations	
Further information	kaging				

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mail.industry.siemens.com/mail/en/en/Catalog/product?mlfb=3MU7310-2FA0
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MU7310-2FA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MU7310-2FA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MU7310-2FA0⟨=en
Characteristic: Tripping characteristics, I ² t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MU7310-2FA0/char
Further characteristics (e.g. electrical endurance, switching frequency)





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