

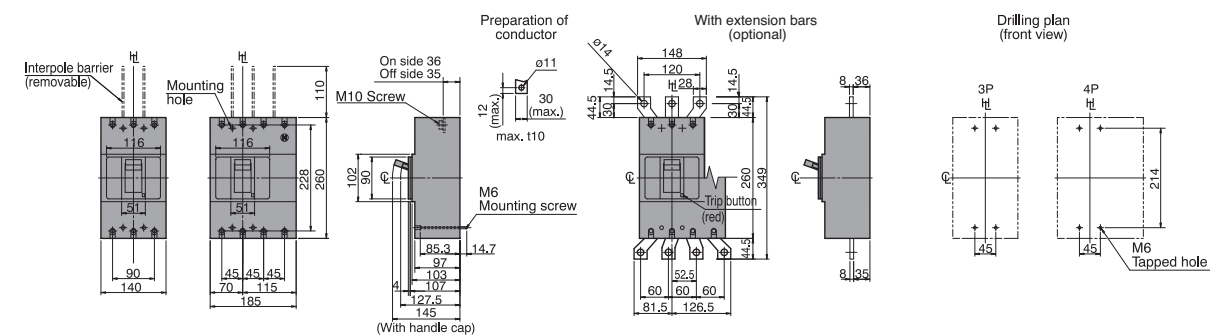
DATA SHEET: TEMBREAK 2 GS400-NE MCCB

MCCB Electrical Characteristics to IEC 60947-2, EN 60947-2, JIS C 8201-2-1 ANN.1, AS/NZS 3947-2, NEMA AB-1

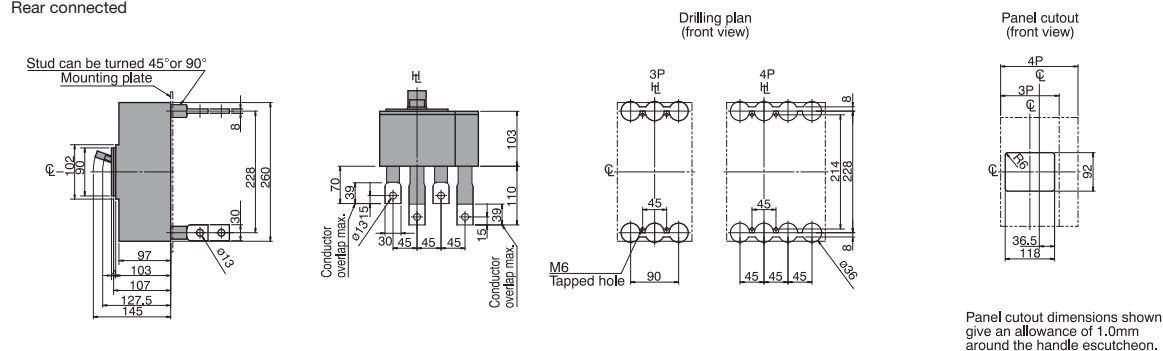
Frame Reference	Quantity	Unit	Condition	TB2 E/S 630
Max In (A) of Frame				630
Model				S400
Number of Poles				3, 4
Type				NE
Nominal current ratings				
	I_n	(A)	50°C	250 400
Electrical characteristics				
Rated operational voltage	U_e	(V)	AC 50/60 Hz DC	690 -
Rated insulation voltage	U_i	(V)		800
Rated impulse withstand voltage	U_{imp}	(kV)		8
Ultimate breaking capacity (IEC, JIS, AS/NZS)	I_{cu}	(kA)	690V AC 525V AC 440V AC 400/415V AC 220/240V AC 250V DC	20 30 45 50 85 -
Service breaking capacity (IEC, JIS, AS/NZS)	I_{cs}	(kA)	690V AC 525V AC 440V AC 400/415V AC 220/240V AC 250V DC	15 30 45 50 85 -
Rated breaking capacity (NEMA)		(kA)	480V AC 240V AC	25 85
Rated short-time withstand current	I_{cw}	(kA)	0.3 Seconds	5
Protection				
Adjustable thermal, adjustable magnetic Fixed thermal, fixed magnetic Microprocessor Utilisation category				■ B
Installation				
Front connection (FC) Extension bar (FB) Cable clamp (FW) Rear connection (RC) Plug-in (PM) DIN rail mounting (DA) Dimensions	height width depth weight	(mm) (mm) (mm) (kg)	3 pole 4 pole	■ • • • • - 260 140 185 103 4.2 5.6
Weight			3 pole 4 pole	4.2 5.6
Operation				
Direct Opening Action Toggle operation Door mounted (HS) / Breaker mounted handle (HB) Motor operation (MC) Endurance	Electrical Mechanical	cycles cycles	415V AC	■ ■ • • 4,500 15,000

Outline Dimensions GS400-NE

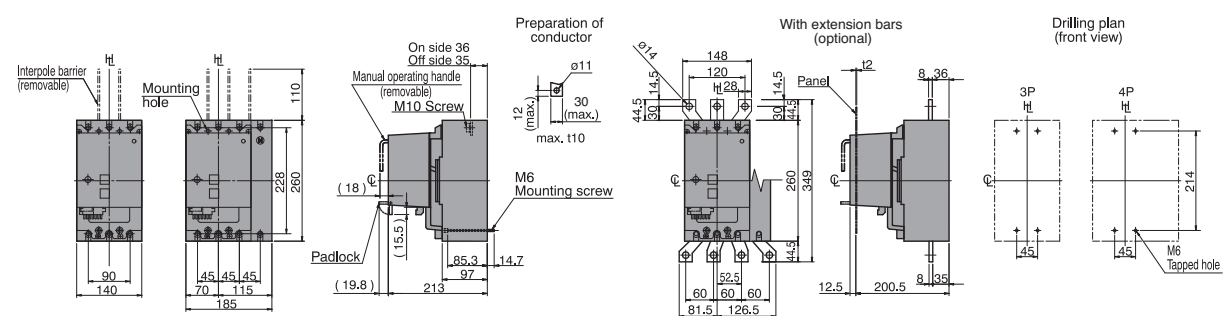
ASL: Arrangement Standard Line H: Handle Frame Centre Line
Front connected



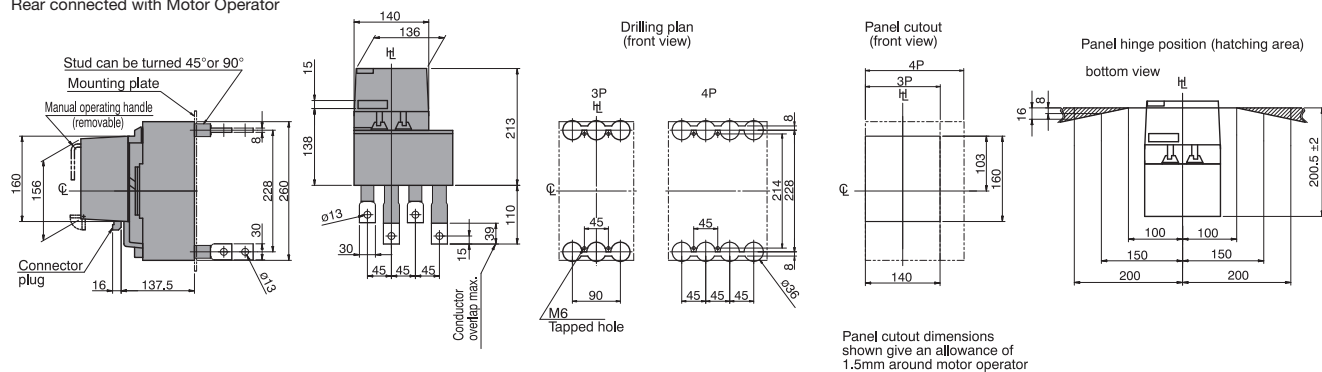
Rear connected



Front connected with Motor Operator



Rear connected with Motor Operator

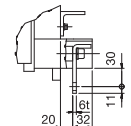


ASL: Arrangement Standard Line H: Handle Frame Centre Line

Mounting screw
M10x30 max.

Terminal bars should be connected alternately on adjacent poles.

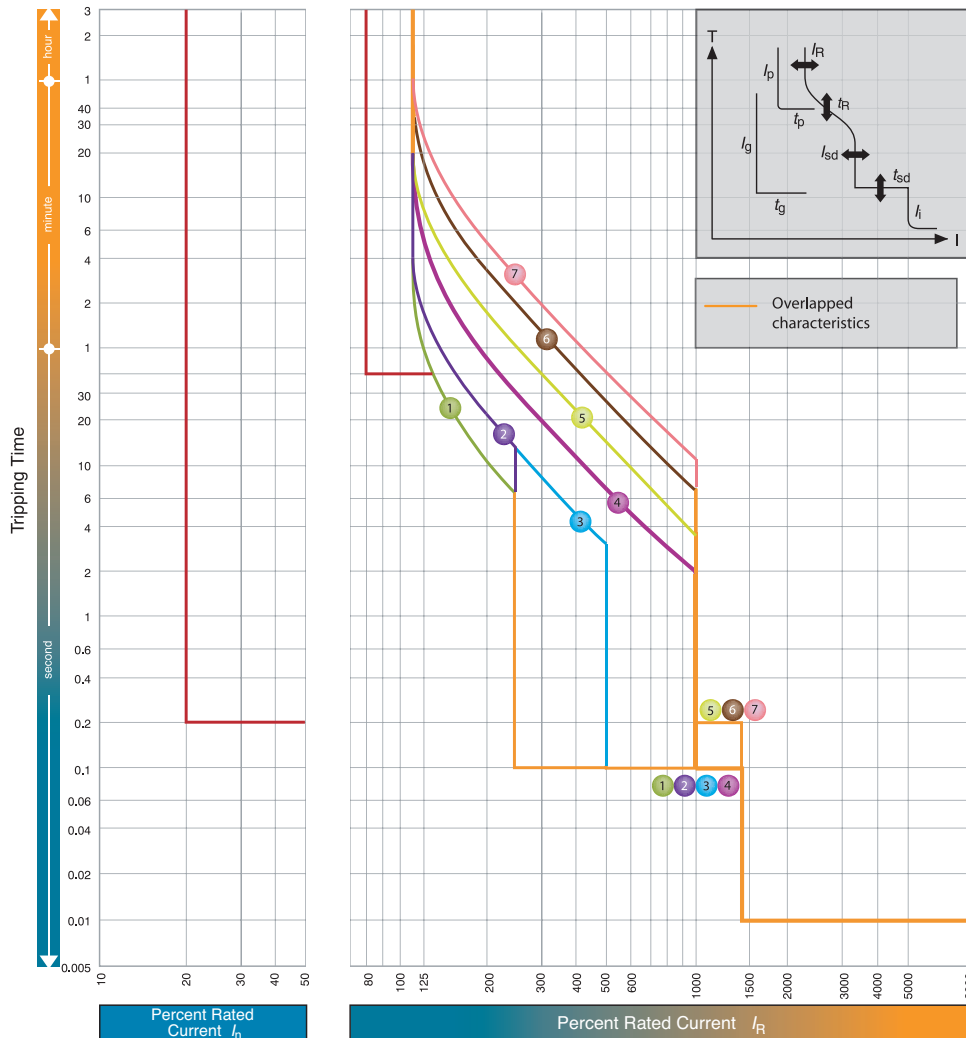
Terminal bars should be connected alternately on adjacent poles.



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Time/Current Characteristic Curves

S400-NE



$I_n = 400A$; 250A Note (1)

		I_R (A)									
		LTD Pick-up current	I_R	x/I_n	0.4	0.5	0.63	0.8	0.9	0.95	1.0
Standard	LT	t_R	(s)	11	21	21	5	10	19	29	
	ST	I_{sd}	x/I_R	2.5	5				10		
		t_{sd}	(s)		0.1				0.2		
	INST	I_i	x/I_R	14(Max: $13 \times I_n$) Note (2)							
Option	PTA	I_p	x/I_R	0.8							
		t_p	(s)	40							
	GF Note(4)	I_g	x/I_n	0.2							
		t_g	(s)	0.2							
	NP	I_N	x/I_R	1.0/0.5 Note (3)							
		t_N	(s)	$t_N = t_R$							

Note

(1) GF is not available when I_n is 250A. (2) I_i max. = $13 \times I_n$. (3) $1.0 \times I_R$ or $0.5 \times I_R$ can be selected. Characteristic of neutral protection (t_N vs. I_N) is identical to characteristic of phase protection (t_R vs. I_R). (4) When you specify GF on MCCBs with 3 poles the terminal block is automatically fitted to connect with the external neutral CT for 3 phases 4 wires system. See terminal blocks in section 4.



Dokument/document Försäkran om överensstämmelse/ Declaration of conformity		Utgåva datum/edition date 2018-08-22
Avdelning/department Produkt/Product		
Ansvarig/prepared Robert Nydén	Version 5	Sida/page 1 av/of 1

Manufacturer/Tillverkare: GARO AB
Box 203
S-335 25 GNOSJÖ
Sweden

Telephone: +46 (0)370 33 28 00
Internet: www.garo.se

Agent established within EC/Ombud etablerad inom EG

Telephone:
Internet:

Agent of equipment/Materielslag: Moulded Case Circuit Breaker, MCCB/Effektbrytare, MCCB

Trade Mark/Varumärke: GARO

Type Designation/Typbeteckning: GS160SCJ , SJ ,GS400-NE, 3- and 4-pole, GS250-NE, 3- and 4-pole

We hereby declare that our product fulfils the requirements of following EC directives/

Vi intygar härmed att vår produkt uppfyller krav enligt följande EU direktiv:

- ☒ **The Low Voltage Directive (LVD) 2014/35/EU / Lågspänningsdirektivet (LVD) 2014/35/EU.**
- ☒ **Electromagnetic compatibility (EMC) 2014/30/EU / Elektromagnetisk kompatibilitet (EMC) 2014/30/EU.**
- ☐ **Radio Equipment Directive 2014/53/EU (RED) 2014/30/EU / Radiodirektivet (RED) 2014/53/EU.**
- ☒ **RoHS Directive (RoHS) 2011/65/EU / RoHS direktivet (RoHS) 2011/65/EU.**
- ☐ **No electromagnetic compatibility (EMC 2014/30/EU) immunity or emission tests are required on the assembly / Produkten innehåller inte elektroniska apparater som påverkas enligt förbehållen enligt direktivet (EMC) 2014/30/EU.**

The following harmonised standards (latest edition) or technical specifications which comply with good engineering practice in safety matters in force within the EC have been used in the design:/

Följande harmoniserade standarder (senaste utgåva) eller tekniska specifikationer som uppfyller god säkerhetsteknik praxis inom EG har använts i konstruktionen: **EN 60947-1 and/och 60947-2**

- ☒ **The equipment confirms completely with the above stated harmonised standards or technical specifications./**
Materielen överensstämmer helt med ovan angivna harmoniserade standarder eller tekniska specifikationer.

Or/Eller

- ☐ **The equipment confirms only partially with the above stated harmonised standards or technical specifications but complies with good practice in safety matters in force within the EC./**
Materielen överensstämmer endast delvis med ovan angivna harmoniserade standarder eller tekniska specifikationer, men uppfyller god säkerhetsteknisk praxis inom EG.

We have product surveillance according to CENELEC's harmonised requirements, documents CCA-201.

GARO AB
Company/Företag

2018-08-22
Date/Datum

Sign/Underskrift

Product Manager/Produktchef
Position/Befattning

Robert Nydén
Sign in printed letters/Namnförtydligande