

DATA SHEET: TEMBREAK 2 GS630-CE 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

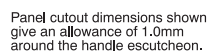
Frame Reference	Quantity	Unit	Condition	TB2 E/S 630
Max In (A) of Frame				630
Model Number of Poles Type				S630 3, 4 CE
Nominal current ratings				
	In	(A)	50°C	630
Electrical characteristics				
Rated operational voltage	U _e	(A)	AC 50/60 Hz DC	690 ① -
Rated insulation voltage	U _i	(V)		800
Rated impulse withstand voltage	U _{imp}	(kV)		8
Ultimate breaking capacity (IEC, JIS, AS/NZS)	I _{cu}	(kA)	690VAC 525VAC 440VAC 400/415VAC 220/240VAC 250V DC	20 ① 30 45 50 85 -
Service breaking capacity (IEC, JIS, AS/NZS)	I _{cs}	(kA)	690VAC 525VAC 440VAC 400/415VAC 220/240VAC 250V DC	15 ① 30 45 50 85 -
Rated breaking capacity (NEMA)		(kA)	480VAC 240VAC	25 85
Protection				
Adjustable thermal, adjustable magnetic Fixed thermal, fixed magnetic Microprocessor Utilisation category				■ A
Installation				
Front connection (FC) Extension bar (FB) Cable clamp (FW) Rear connection (RC) Plug-in (PM) Din rail mounting (DA) Dimensions	height width	(mm) (mm)	3 pole, (1 pole) 4 pole	■ ● - ● ② - 260 140
Weight	depth weight	(mm) (kg)	3 pole, (1 pole) 4 pole	185 103 5.0 6.5
Operation				
Direct Opening Action Toggle operation Door mounted (HS) / breaker mounted handle (HB) Motor operation (MC)				■ ■ ● ●
Endurance	Electrical Mechanical	cycles cycles	415VAC	4,500 15,000

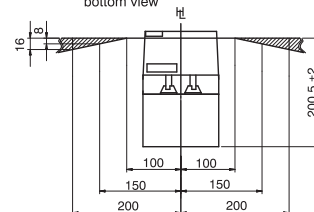
■ Standard ● Optional - Not Available

① MCCB cannot be used in IT systems at this voltage.
② Not fully rated at 50°C refer to Temperature Ratings

Outline Dimensions GS630-CE

Front connected

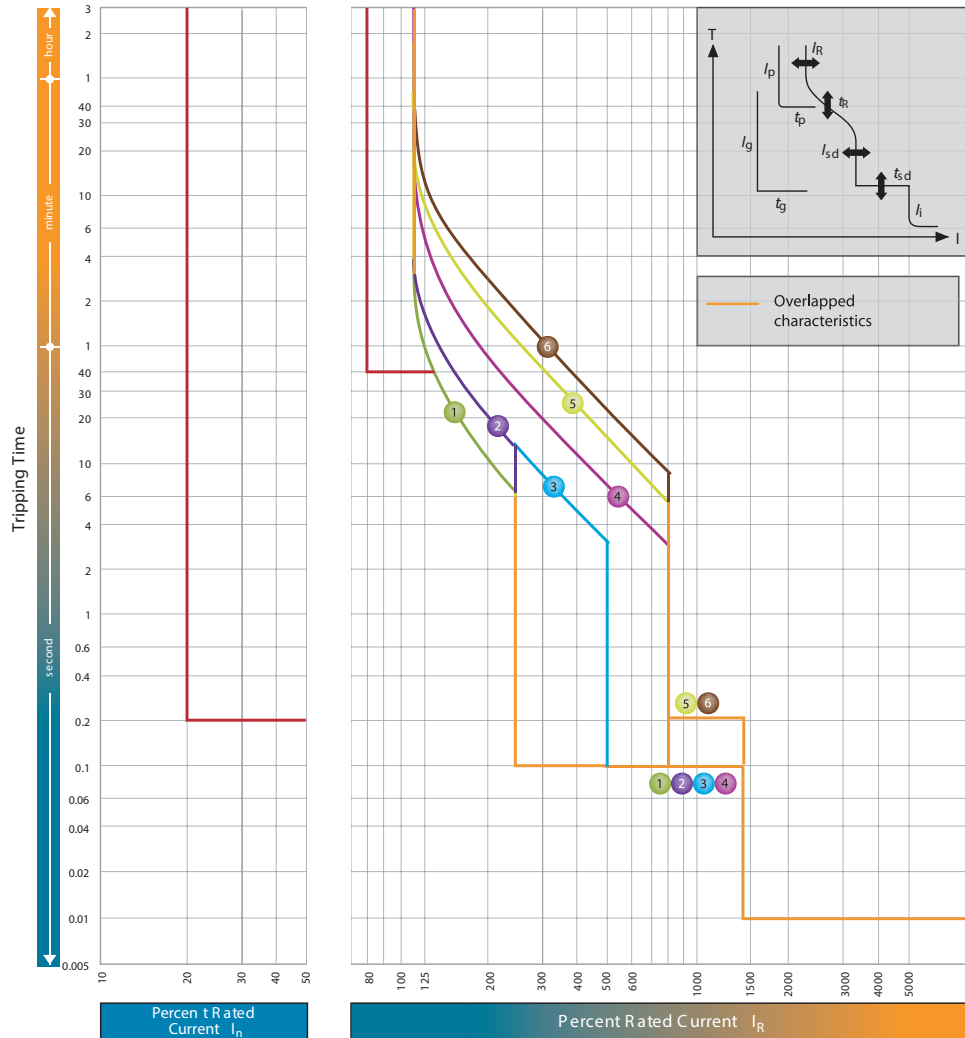




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Time/Current Characteristic Curves

GS630-CE



$I_n = 630A$

		I _R (A)											
		LTD Pick-up current	I _R	xI _n	0.4	0.5	0.63	0.8	0.85	0.9	0.95	1.0	
		Characteristics		No.	1	2	3	4	5	6			
Standard	LT	t _R	(s)	11	21	21		5	10	16			
				at 200% x I _R				at 600% x I _R					
	ST	I _{sd}	xI _R	2.5		5	8						
		t _{sd}	(s)	0.1						0.2			
	INST	I _i	xI _R	14(Max: 10 x I _n) Note (1)									
Option	PTA	I _p	xI _R	0.8									
		t _p	(s)	40									
	GF Note(3)	I _g	xI _n	0.2									
		t _g	(s)	0.2									
	NP	I _N	xI _R	1.0/0.5 Note(2)									
		t _N	(s)	t _N =t _R									

Note

(1) I_i max. = $10 \times I_n$. (2) $1.0 \times I_R$ 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). (3) 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.



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,NJ, 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