



ENERGY AND AUTOMATION

electric COMPOSED OF ONE DMG100 MULTIMETER AND N° 3 CTS 100/5A FOR Ø22MM/0.87" CABLE



Product designation			Current transformer kit
Product type designation			DMG100 and 3 CTs 100/5A
Туре			Three-phase + neutral
DIN rail module number			4
Auxiliary supply Us			
Auxiliary rated supply voltage AC		VAC	100240
Auxiliary rated supply voltage DC		VDC	110250
Auxiliary operating voltage range			
AC			
	min	VAC	85
	Max	VAC	264
DC			
	min	VDC	93.5
	Max	VDC	300
Operational frequency			
	min	Hz	50
	max	Hz	60
Power consumption			
	Max	VA	3.5
Power dissipation Max		W	1.2
·		• • •	
Measuring voltage inputs			
Measuring voltage inputs Rated voltage (Ue)			
Rated voltage (Ue)	nhase-nhase	VAC	690
•	phase-phase	VAC	690 400
Rated voltage (Ue)	phase-phase phase-neutral	VAC VAC	690 400
•	phase-neutral	VAC	400
Rated voltage (Ue)	phase-neutral phase-phase	VAC	20830
Rated voltage (Ue) Operating voltage range	phase-neutral	VAC	400
Rated voltage (Ue)	phase-neutral phase-phase phase-neutral	VAC VAC VAC	20830 10480
Rated voltage (Ue) Operating voltage range	phase-neutral phase-phase phase-neutral min	VAC VAC VAC	20830 10480
Rated voltage (Ue) Operating voltage range Voltage inputs operational frequency	phase-neutral phase-phase phase-neutral	VAC VAC VAC	400 20830 10480 45 66
Rated voltage (Ue) Operating voltage range	phase-neutral phase-phase phase-neutral min	VAC VAC VAC	400 20830 10480 45 66 True RMS
Rated voltage (Ue) Operating voltage range Voltage inputs operational frequency	phase-neutral phase-phase phase-neutral min	VAC VAC VAC	400 20830 10480 45 66 True RMS Single. two.
Operating voltage range Voltage inputs operational frequency Voltage inputs measurement method	phase-neutral phase-phase phase-neutral min	VAC VAC VAC	400 20830 10480 45 66 True RMS Single. two. three-phase with
Rated voltage (Ue) Operating voltage range Voltage inputs operational frequency	phase-neutral phase-phase phase-neutral min	VAC VAC VAC	20830 10480 45 66 True RMS Single. two. three-phase with or without neutral.
Operating voltage range Voltage inputs operational frequency Voltage inputs measurement method	phase-neutral phase-phase phase-neutral min	VAC VAC VAC	400 20830 10480 45 66 True RMS Single. two. three-phase with or without neutral. balanced three-
Operating voltage range Voltage inputs operational frequency Voltage inputs measurement method Connection method	phase-neutral phase-phase phase-neutral min	VAC VAC VAC	20830 10480 45 66 True RMS Single. two. three-phase with or without neutral.
Rated voltage (Ue) Operating voltage range Voltage inputs operational frequency Voltage inputs measurement method Connection method Current inputs	phase-neutral phase-phase phase-neutral min	VAC VAC VAC Hz Hz	20830 10480 45 66 True RMS Single. two. three-phase with or without neutral. balanced three-phase systems
Rated voltage (Ue) Operating voltage range Voltage inputs operational frequency Voltage inputs measurement method Connection method Current inputs Rated current (le)	phase-neutral phase-phase phase-neutral min	VAC VAC VAC	20830 10480 45 66 True RMS Single. two. three-phase with or without neutral. balanced three- phase systems
Rated voltage (Ue) Operating voltage range Voltage inputs operational frequency Voltage inputs measurement method Connection method Current inputs Rated current (Ie) Measurement range	phase-neutral phase-phase phase-neutral min	VAC VAC VAC Hz Hz	20830 10480 45 66 True RMS Single. two. three-phase with or without neutral. balanced three-phase systems 5 0.016
Rated voltage (Ue) Operating voltage range Voltage inputs operational frequency Voltage inputs measurement method Connection method Current inputs Rated current (le)	phase-neutral phase-phase phase-neutral min	VAC VAC VAC Hz Hz	20830 10480 45 66 True RMS Single. two. three-phase with or without neutral. balanced three-phase systems 5 0.016 TRMS
Rated voltage (Ue) Operating voltage range Voltage inputs operational frequency Voltage inputs measurement method Connection method Current inputs Rated current (Ie) Measurement range Measurement method	phase-neutral phase-phase phase-neutral min	VAC VAC VAC Hz Hz	20830 10480 45 66 True RMS Single. two. three-phase with or without neutral. balanced three- phase systems 5 0.016 TRMS +20% le through
Rated voltage (Ue) Operating voltage range Voltage inputs operational frequency Voltage inputs measurement method Connection method Current inputs Rated current (Ie) Measurement range	phase-neutral phase-phase phase-neutral min	VAC VAC VAC Hz Hz	20830 10480 45 66 True RMS Single. two. three-phase with or without neutral. balanced three-phase systems 5 0.016 TRMS





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Primary current pn (f5)	Overload peak		Λ	50A for 1s
Secondary output current			A	
Overload withstand Ipn				
Accuracy				
VLN voltage	· .		%	120
VILL voltage	Accuracy	\/ \ \ \		.0.50/
Current Frequency Active power				
Prequency Active power \$\frac{1}{2} \text{iffs} \text{ insulations} \text{ \$\frac{1}{2} \text{ iffs} \text{ \$\frac{1}{2} \text{ \$\frac{1}{2} \text{ iffs} \text{ \$\frac{1}{2} \text				
Max				
Rated insulation voltage Ui IEC/EN V 720 Rated insulation voltage Uimp kV 9.5 Solution kV 9.5				
Rated insulation voltage Uir IEC/EN V 720		Active power		±1%
Rated impulse withstand voltage Uimp				
Operating frequency withstand voltage kV 5.2 IEC rated short-time thermal current Ith Ith for s 4060 IEC rated dynamic current Idyn Ith for s 2.5 Insulation dry type Class E Mechanical features Polyamide Housing type Polyamide Terminals type Fixed Conductor cross section min mm² o.2 Max mm² dry				
IEC rated short-time thermal current ith Ith for s 4060 IEC rated dynamic current Idyn Ith for s 2.5 Insulation dry type Class E Mechanical features Housing type Polyamide Terminals type Fixed Conductor cross section min mm² 0.2 Max mm² 4 min AWG 24 Max AWG 12 Max MWG 12	Rated impulse withstand voltage Uimp		kV	9.5
Ith for s	Operating frequency withstand voltage		kV	5.2
Class E	IEC rated short-time thermal current Ith		Ith for s	4060
Class E	IEC rated dynamic current Idyn		Ith for s	2.5
Mechanical features	·			
Polyamide Poly				
Fixed Conductor cross section				Polyamide
Min mm² 0.2 Max mm² 4 min AWG 24 Max AWG 12				
min mm² 0.2 Max mm² 4 min AWG 24 Max Max MWG 12 Max MWG 12 Max MWG 12 Max MWG 12 Max MWG Max MWG 12 MWG Max MWG MAX MWG 12 MWG MAX M				TIAGU
Max mm² 4 min AWG 24 min AWG 12 Max AWG 12	Conductor cross section	!-		0.0
Max AWG 24 Max AWG 12				
Max AWG 12				
Nm				
Nm 0.8		Max	AWG	12
Din rail Prixing Din rail Prixing Din rail Prixing Din rail Prixing Din rail Di	Tightening torque (Max)			
Din rail				
Weight g 1035 Ambient conditions Temperature min °C -20 max °C +60 Storage temperature min °C -30 max °C +80 Relative humidity % <90			lbin	
Comparison				
Operating temperature	Weight		g	1035
Operating temperature min	Ambient conditions			
min	Temperature			
max °C +60	Operating temperature			
Storage temperature min °C -30 max °C +80 Relative humidity % <90 Maximum Pollution degree 2 Protection degree ETIM classification EC002301 - Multifunction measuring	·	min	°C	-20
Storage temperature min °C -30 max °C +80 Relative humidity % <90 Maximum Pollution degree 2 Protection degree ETIM classification EC002301 - Multifunction measuring		max	°C	+60
Relative humidity Relative humidity Maximum Pollution degree Protection degree ETIM classification ETIM 8.0 ETIM 8.0	Storage temperature			
Relative humidity Maximum Pollution degree Protection degree ETIM classification ETIM 8.0 Protection degree ETIM 8.0	·	min	°C	-30
Relative humidity % <90 Maximum Pollution degree 2 Protection degree IP30 ETIM classification EC002301 - Multifunction measuring				
Maximum Pollution degree 2 Protection degree IP30 ETIM classification EC002301 - Multifunction measuring	Relative humidity			
Protection degree IP30 ETIM classification EC002301 - Multifunction measuring				
ETIM classification EC002301 - Multifunction measuring	<u> </u>			
EC002301 - Multifunction measuring				11 00
ETIM 8.0 Multifunction measuring	LTIW Glassification			EC002204
measuring				
	ETIM 8.0			
institution				