Address (hex)	Group	Description	Values range	Step	Unit	For-mat	Def. value	P125	P126	P127
0070	**Protection 27**	Information of the threshold status U<				F17				•
0071		Information of the threshold status U<<				F17				•
0072	**Protection 32n**	Information of the threshold status Pe/ IeCos>				F16		•	•	•
0073		Information of the threshold status Pe/ IeCos>>				F16		•	•	•
0074		Angle between Ie^Ue	0-359		Deg	F1				
0075		Angle between Ie^Ue	0-359		Deg	F1		•	•	•
0076	**Protection 59**	Information of the threshold status U>				F17				•
0077		Information of the threshold status U>>				F17				•
0078–0079		Reserved								
007A	**Protection 59n**	Information of the threshold status Ue>>>>				F16		•	•	•
007B	**Protection 67n**	Information of the threshold status Ie_d>				F16				•
007C	**Protection 46**	Information of the threshold status I2>				F17			•	•
007D		Information of the threshold status I2>>				F17			•	•
007E		Information of the threshold status I2>>>				F17			•	•
007F	**Boolean equations**	Boolean equation status				F48			•	•
0080–0081	**Voltage measurement**	Phase A RMS voltage		1	10mV	F18A				•
0082–0083		Phase B RMS voltage		1	10mV	F18A				•
0084–0085		Phase C RMS voltage		1	10mV	F18A				•
0086–0087		Earth RMS voltage		1	10mV	F18A		•	•	•
0088		Module UAB				F1				•
0089		Module UBC	Unit is missing			F1				•
008A		Module UCA				F1				•
008B		Module Ue				F1		•	•	•
008C		Angle between IA^UAB	0-359		Deg	F1				•
008D		Angle between IA^UBC	0-359		Deg	F1				•
008E		Angle between IA^UCA	0-359		Deg	F1				•
008F		Angle between IA^Ue	0-359		Deg	F1			•	•
0090–0092		Max phase A RMS voltage		1	10mV	F18				•
0092–0093		Max phase B RMS voltage		1	10mV	F18				•
0094–0095		Max phase C RMS voltage		1	10mV	F18				•
0096–0097		Average phase A RMS voltage		1	10mV	F18				•
0098–0099		Average phase B RMS voltage		1	10mV	F18				•
009A–009B		Average phase C RMS voltage		1	10mV	F18				•
009C–009D	**Power measures**	Module Pe			CAN	F18A		•	•	•
009E–009F		3-Phase Active Power (P)	-999.9 10^6 to 999.9 10^6	1	10Watt	F18				•
00A0–00A1		3-Phase Re-active Power (Q)	-999.9 10^6 to 999.9 10^6	1	10VAR	F18				•
00A2		3-Phase CosPHI	-100 to 100	1	0.01	F2				•
00A3–00A4		Rolling demand average RMS IA value		1	10mA	F18A			•	•
00A5–00A6		Rolling demand average RMS IB value		1	10mA	F18A			•	•
00A7–00A8		Rolling demand average RMS IC value		1	10mA	F18A			•	•
00A9–00AA	**Power measures**	Module IeCos				F18A		•	•	•
00AB-00AC		3-Phase Apparent power (S)	-999.9 10^6 to 999.9 10^6	1	10VA	F18				•
00AD-00AE	**Energy measures**	Apparent energy 3Ph V A Hours	from 1 to 4.200 x 10^9	1	kVAh	F18A				•

Word Nr.	Contents
24	Acknowledgement: 0 = fault not acknowledged 1 = fault acknowledged

(1) Fault value is a CAN value; it has to be processed according to the below formulas to find corresponding primary value.

Phase current values calculation formula

Line phase current value (primary value) = value x phase primary CT ratio / 800

Earth current values calculation formula

The formula depends of nominal earth current:

0.1 to 40 Ien range
Line earth current value (primary value) = value x earth primary CT ratio / 800

0.01 to 8 Ien range
Line earth current value (primary value) = value x earth primary CT ratio / 3277

0.002 to 1 Ien range
Line earth current value (primary value) = value x earth primary CT ratio / 32700

Phase voltage values calculation formula

The formula depends of nominal phase voltage:

57 to 130 V range
Line phase voltage value (primary value) = value x (phase primary VT ratio / phase secondary VT ratio) / 63

220 to 480 V range
Line phase voltage value (primary value) = value / 17

Earth voltage values calculation formula

The formula depends of nominal earth voltage:

57 to 130 V range
Line earth voltage value (primary value) = value x (earth primary VT ratio / earth secondary VT ratio) / 63

220 to 480 V range
Line earth voltage value (primary value) = value / 17

Phase power values calculation formula

The formula depends of nominal phase voltage:

57 to 130 V range
Line phase power value (primary value) = value x (phase primary CT ratio x (phase primary VT ratio / phase secondary VT ratio)) / (800 x 63)

220 to 480 V range
Line phase power value (primary value) = value x phase primary CT ratio / (800 x 17)