

V1.0 10.10.2019
V2.2 7.1.2019
Firmware 30.201 / 12.1.2019

V2.3 – 28.7.2020 (Synchrocheck)

Current Stages 1 Start and Trips	6027 (Reg. Address)
0 (Start)	Phase Overcurrent I>
1 (Trip)	
2	Phase Overcurrent I>>
3	
4	Phase Overcurrent I>>>
5	
6	Dir Phase Overcurrent 1
7	
8	Dir Phase Overcurrent 2
9	
10	Dir Phase Overcurrent 3
11	
12	Dir Phase Overcurrent 4
13	
14	Under Current
15	

Current Stages 2 Start and Trips	6028
0 (Start)	Voltage-dependent o/c
1 (Trip)	
2	Broken Conductor
3	
4	Magnetizing Inrush det. If2>
5	
6	5th Harmonic Detection If5>
7	
8	SOTF
9	
10	
11	
12	
13	
14	
15	

Current Stages 3 Start and Trips	6029
0 (Start)	
1 (Trip)	
2	
3	
4	
5	
6	
7	

8	
9	
10	
11	
12	
13	
14	
15	

Earth-Fault Stages 1 Start and Trips**6030**

0 (Start)	E/F overcurrent 1
1 (Trip)	
2	E/F overcurrent 2
3	
4	E/F overcurrent 3
5	
6	E/F overcurrent 4
7	
8	E/F overcurrent 5
9	
10	Dir. E/F overcurrent 1
11	
12	Dir. E/F overcurrent 2
13	
14	Dir. E/F overcurrent 3
15	

Earth-Fault Stages 2 Start and Trips**6031**

0 (Start)	Neutral Volt. Displacement Uo>
1 (Trip)	
2	Neutral Volt. Displacement Uo>>
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

Voltage Stages 1 Starts and Trips**6032**

0 (Start)	Overvoltage U>
1 (Trip)	
2	Overvoltage U>>
3	
4	Overvoltage U>>>
5	
6	Undervoltage U<
7	
8	Undervoltage U<<
9	
10	Undervoltage U<<<
11	
12	
13	
14	
15	

Voltage Stages 2 Starts and Trips**6033**

0 (Start)	Neg. Seq. Voltage U2>
1 (Trip)	
2	Neg. Seq. Voltage U2>>
3	
4	Neg. Seq. Voltage U2>>>
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

Frequency Stages Starts and Trips**6034**

0 (Start)	Over and Under freq. FX
1 (Trip)	
2	Over and Under freq. FXX
3	
4	Under Frequency f<
5	
6	Under Frequency f<<
7	
8	ROCOF
9	

10	
11	
12	
13	
14	
15	

Programmable Stages Starts and Trips**6035**

0 (Start)	Programmable Stage 1
1 (Trip)	
2	Programmable Stage 2
3	
4	Programmable Stage 3
5	
6	Programmable Stage 4
7	
8	Programmable Stage 5
9	
10	Programmable Stage 6
11	
12	Programmable Stage 7
13	
14	Programmable Stage 8
15	

Motor Stages Starts and Trips**6036**

0 (Start)	Motor Start-up Supervision
1 (Trip)	
2	Motor Restart Inhibition
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

Arc Master Stages Trips**6037**

0	Arc Master Stage 1 Trip
1	Arc Master Stage 2 Trip
2	Arc Master Stage 3 Trip
3	Arc Master Stage 4 Trip
4	Arc Master Stage 5 Trip
5	Arc Master Stage 6 Trip
6	Arc Master Stage 7 Trip
7	Arc Master Stage 8 Trip
8	
9	
10	
11	
12	
13	
14	
15	

Differential Stages Starts and Trips**6038**

0 (Start)	Diff. Overcurrent Stage 1 (dl>)
1 (Trip)	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

Other Stages 1 Starts and Trips

6039

0 (Start)	Directional Power P<
1 (Trip)	
2	Directional Power P<<
3	
4	
5	Thermal Overload
6	
7	Capacitor Overvoltage
8	
9	Breaker Failure
10	
11	Breaker Failure 1
12	
13	Breaker Failure 2
14	
15	

Other Stages 2 Starts and Trips

6040

0	SYNCHROCHECK 1 – Request
1	SYNCHROCHECK 1 – OK / Not OK
2	SYNCHROCHECK 2 – Request
3	SYNCHROCHECK 2 – OK / Not OK
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

Other Stages 3 Starts and Trips

6041

0 (Start)	
1 (Trip)	
2	
3	
4	
5	
6	
7	
8	
9	

Sheet1

10	
11	
12	
13	
14	
15	