

Converter systems SIMODRIVE 611

Infeed and infeed/regenerative feedback modules

Technical specifications (continued)

Internal heat dissipation	6SN1145-	-	1AA0.-0AA1	1AA0.-0CA0	1BA0.-0BA1	1BA0.-0CA1	1BA0.-0DA1	1BB0.-0EA1	1BB0.-0FA1
	6SN1146-	1AB0.-0AB1	-	-	-	-	-	-	-
External heat dissipation ⁷⁾	6SN1145-	-	1AA0.-0AA1	-	-	-	-	-	-
	6SN1146-	1AB0.-0AB1	-	1AA0.-0CA0	1BB0.-0BA1	1BB0.-0CA1	1BB0.-0DA1	1BB0.-0EA1	1BB0.-0FA1
Hose cooling ⁷⁾	6SN1145-	-	-	-	-	-	1BB0.-0DA1	1BB0.-0EA1	1BB0.-0FA1
<u>Regenerative feedback</u>									
Continuous feedback power	kW	-	-	-	16	36	55	80	120
Peak feedback power	kW	-	-	-	35	70	91	131	175
Continuous/peak performance of integrated pulsed resistor	kW	0.2/ 10	0.3/ 25	- ⁹⁾	-	-	-	-	-
<u>Supply data</u>									
Voltage (output)	V	3-phase AC 400 V -10% / 3-phase AC 415 V ±10% / 3-phase AC 480 V +6% ^{2) 8)}							
Voltage (electronics)	V	3-phase AC 400 V -10% ... 3-phase AC 480 V +6%							
Power supply	V	At DC link with DC 600/625/680 or parallel infeed, AC and DC connection							
Frequency	Hz	50 ... 60 ±10%							
Rated current	A	9.4	18.2	48.8	27	60.5	92.5	134	202
Current with undervoltage	A	11	21.7	58.3	30	67.3	103	149	224.5
Peak current	A	19	39	87	59	117.5	153	220	294
Max. conductor cross section	mm ²	6	16	50	16	50	95	95	150
Output voltage	V	0 ... 490 ... 680 depending on the supply voltage level			0 ... 600/625/680 ⁸⁾				
Output frequency	Hz	0 ... 1400 depending on the control unit							
Module width	mm (inch)	50 (1.97)	100 (3.94)	200 (7.87)	100 (3.94)	200 (7.87)	300 (11.81)	300 (11.81)	300 (11.81)
<u>Heat dissipation method</u>									
Internal heat dissipation		Natural cooling	Universal cooling, internal/external	Internal separate fan	Internal separate fan	Internal separate fan	Internal separate fan	Built-on fan ⁴⁾	Built-on fan ⁴⁾
External heat dissipation		Natural cooling ¹⁾	Universal cooling, internal/external	Integrated separate fan	Integrated separate fan	Integrated separate fan	Fan box and built-on fan required ⁴⁾		
Hose cooling		-	-	-	-	-	Kit for hose cooling with fan		
<u>Losses</u>									
Internal heat dissipation	W	270 ³⁾	450 ³⁾	250 ³⁾	320	585	745	1280 ⁴⁾	1950 ⁴⁾
External heat dissipation	W	270 ³⁾ / -	119/ 331	90/ 160	50/ 270	50/ 535	115/ 630	190/ 1090	290/ 1660
Hose cooling, internal/external	W	-	-	-	-	-	115/ 630	190/ 1090	290/ 1660
Degree of efficiency η		0.985	0.985	0.985	0.97	0.975	0.977	0.977	0.978
<u>Weight</u>									
Internal heat dissipation	kg (lb)	6.5 (14.33)	9.5 (20.95)	15.5 (34.18)	10.5 (23.15)	15.5 (34.18)	26 (57.33)	26 (57.33)	29 (63.95)
External heat dissipation ⁵⁾	kg (lb)	6.5 (14.33)	9.5 (20.95)	15.5 (34.18)	10.5 (23.15)	15.5 (34.18)	26 (57.33)	26 (57.33)	29 (63.95)
Hose cooling ⁶⁾	kg (lb)	-	-	-	-	-	26 (57.33)	26 (57.33)	29 (63.95)

1) Housing suitable for drive groups with internal and external heat dissipation.

2) 80/120 kW I/RF modules require an external control voltage for the internal line contactor. 2-phase AC 360 ... 457 V/45 ... 53 Hz; 2-phase AC 400 ... 510 V /57 ... 65 Hz.

3) Including the internal pulsed resistor portion.

4) Built-on fan 6SN1162-0BA02-0AA2 is required.

5) Without built-in components.

6) Without hose cooling kit.

7) Data apply in conjunction with specified external fan and fan box.

8) The DC link voltage for 3-phase AC 400 V ... 415 V or 400 ... 480 V line voltage must be selected on the I/RF module by means of a coding switch.

9) External pulsed resistors can be connected.