



Frame



C3



C4



C5/6/7

ACS580 series Wall-mounted single drives [General Drives/Servo]

Un = 3phase- 220 V (range 200 to 240 V). The power ratings are valid at nominal voltage 220 V

Nominal ratings			Noise level	Heat diss.	Air flow	Type designation * Selection according to rated and peak load current	Frame Size (mm)
Pn KW	In A	I _{max} A	dBA	W	m ³ /h		
0.75	4	5.6	40	40	25	ACS580-R13-04A0-2B	R1 (W78 H210 D145)
1.5	5.6	6.8	40	65	25	ACS580-R16-05A6-2B	
2.2	8	10	40	80	25	ACS580-R17-08A0-2B	
4.0	12.9	17	45	172	53	ACS580-C25-12A9-2B	C2 (W100 H290 D200)
5.5	25	29	45	325	55	ACS580-C27-025A-2B	
7.5	32	42	57	500	145	ACS580-C32-032A-2B	C3 (W145 H400 D230)
11	45	64	57	660	145	ACS580-C34-045A-2B	
15	61	70	57	890	145	ACS580-C35-061A-2B	
18.5	72	104	60	1114	290	ACS580-C43-072A-2 /B	C4 (W250 H400 D270)
22	87	122	60	1140	290	ACS580-C44-087A-2 /B	
30	105	132	60	1200	290	ACS580-C45-105A-2 /B	C5/C6 (W290 H680 D305)
37	145	178	60	1440	350	ACS580-C53-145A-2 /B	
45	169	247	60	1940	350	ACS580-C54-169A-2 /B	
55	206	255	67	2100	550	ACS580-C55-206A-2 /B	
75	246	350	68	3300	685	ACS580-C63-246A-2 /B	

Un = 380V(range 340V to 500V). The power ratings are valid at nominal voltage 400V

Nominal ratings			Noise level	Heat diss.	Air flow	Type designation * Selection according to rated and peak load current	Frame Size (mm)
Pn KW	In A	I _{max} A	dBA	W	m ³ /h		
1.5	4	5.6	40	40	25	ACS580-R15- 04A0-3B	R1 (W78 H210 D145)
2.2	5.6	6.8	40	76	25	ACS580-R16- 05A6-3B	
4.0 ¹⁾	8	10	40	97	25	ACS580-R17- 08A0-3B	
4.0	10.5	15	45	97	53	ACS580-C24-09A8-3B	C2 (W100 H290 D200)
5.5	12.9	17	45	172	53	ACS580-C25- 12A9-3B	
7.5	17	21	45	210	53	ACS580-C26- 17A0-3B	
11	25	29	45	325	55	ACS580-C27- 025A-3B	C3 (W145 H400 D230)
15	32	42	57	500	145	ACS580-C32- 032A-3B	
18.5	38	54	57	550	145	ACS580-C33- 038A-3B	
22	45	64	57	660	145	ACS580-C34- 045A-3B	C4 (W250 H400 D270)
30	61	70	57	890	145	ACS580-C35- 061A-3B	
37	72	104	60	1114	290	ACS580-C43- 072A-3 /B	C5/C6 (W290 H680 D305)
45	87	122	60	1140	290	ACS580-C44- 087A-3 /B	
55	105	132	60	1200	290	ACS580-C45-105A-3 /B	
75	145	178	60	1440	350	ACS580-C53-145A-3 /B	C7 (W425 H900 D350)
90	169	247	60	1940	350	ACS580-C54-169A-3 /B	
110	206	255	67	2100	550	ACS580-C55-206A-3 /B	
132	246	350	68	3300	685	ACS580-C63-246A-3 /B	
160	293	418	68	3850	720	ACS580-C72-293A-3 /B	C7 (W425 H900 D350)
200	363	498	68	4100	720	ACS580-C73-363A-3 /B	
220	430	545	68	4600	720	ACS580-C74-430A-3 /B	
250	487	584	68	5100	720	ACS580-C75-487A-3 /B	

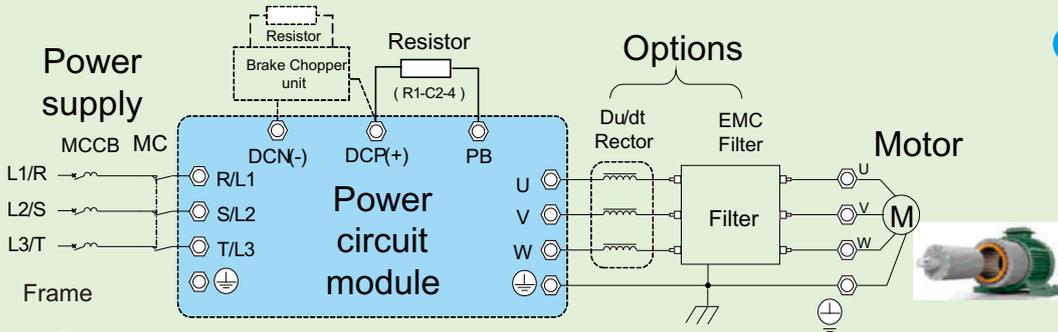
¹⁾ 101-105% Overload, The target is non-long-term, but intermittently work above >80% load and no more than 101-105%.

Ratings

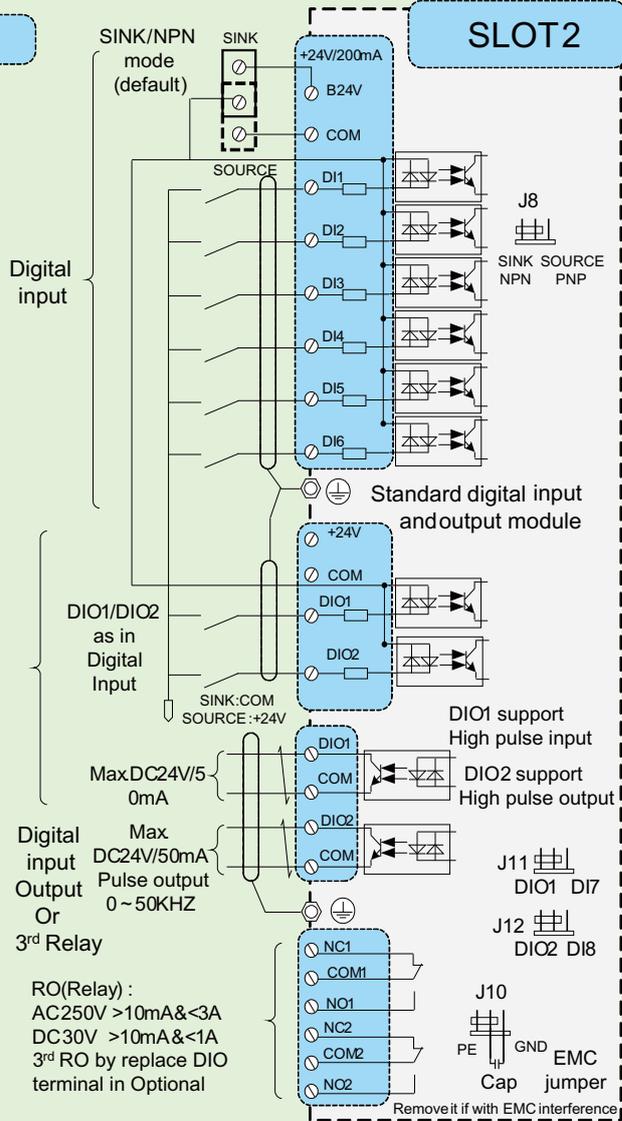
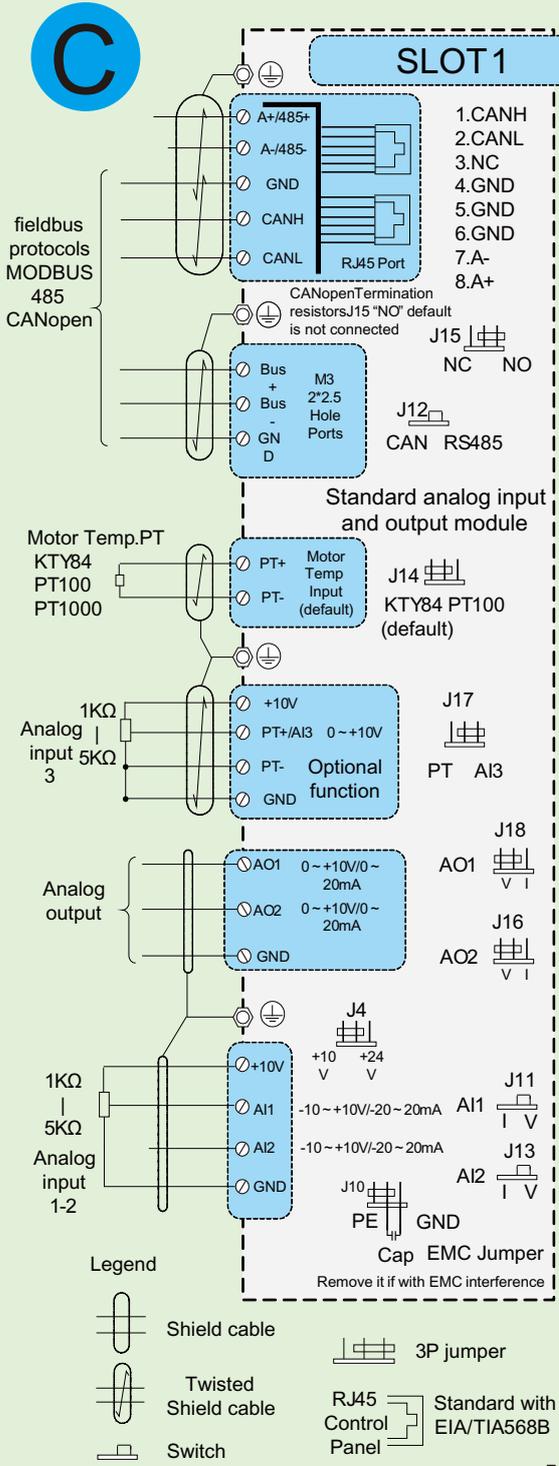
P _n	Typical motor power in Nominal load use.
I _n	Nominal continuous current at 40 ° C, At higher temperatures (up to 55 ° C) the derating is 1%/1 ° C..
Max.current	
I _{max}	Max.current, the length of time depends on the Heatsink temperature of Drives.

ACS580 series are equipped with a series of analog and digital interfaces, a variety of encoder card slots and communication slots. Please refer to the notes below for function details.

Note: >=2 Drives common DC- bus, It is necessary to consider the soft start between units and the current sharing capacity at the rectifier side



Slot3 (>=C2X)	Slot4 (>=C2X)
Slot5 (R1X)	Slot6 (R1X)
encoder card port	communication card port



Instructions and Notes

1. Please pay attention to using the power within the allowable specifications of the driver (voltage level, single or three phase, voltage fluctuation, voltage imbalance, etc.)
2. Due to the driver input and the high-speed switch electronic inversion characteristics, please choose a circuit breaker or Fuse or leakage protection switch that complies with the electrical specifications.
3. Appropriate AC reactor on the output side can effectively suppress the higher-order harmonics on the input side and improve the power factor (types with DC reactors can reduce this requirement, depending on use or industry experience)
4. Noise filters and common mode inductors (magnetic loops) on the input and output sides can effectively reduce the influence of conducted radiation between the drive system and external electrical components. It can be designed to improve the stability and reliability of the system in different application scenarios and so on.
5. AC output reactor (Du / Dt) measures, etc., are used to suppress the resonance peak voltage generated on the motor side when the motor cable is too long (such as more than 100 meters) to protect the motor coils and drive the old and other coil windings. It is especially necessary to evaluate this carefully when the insulation performance is degraded or poor. This measure can also help reduce the leakage from the motor wire to ground due to the distributed induction capacitance.
6. The standard strong and weak current separation wiring, good standard grounding, weak control signal line GND follow and twisted pair, power contactor coil installation of arc extinguishing components and other measures will effectively improve the electrical reliability of the drive system.
7. Good grounding at the site, and standardized electrical layout, wiring, and design for cooling air inlet and outlet will greatly improve the stability and life of the driver.

- *Updated AIO /DIO design support I/O features
1. +10V and +24V can be switched
 2. PT port use to AI 3 with voltage input
 3. CAN and RS 485 mode change by switch
 4. AI1 & AI2 with negative V/A input switch by parameter
 5. DIO 1/DIO 2 support input by SINK and SOURCE mode
- *R type drives I/O 2x analog (only positive) input, 1x output Digital (only SINK) output x (5+1), output x 1 RO relay x 1, no PT /RJ45 port.
6. 3xRelay replace the DIO terminal of DI module in Optional
 7. All DI terminals support internal power 24V, support the voltage input of external power (-20%)24-48vdc(+10%) and (-10%)24-48vac(+10%)