



E Frame



E2-CON



E2



E8

ACS880 series Wall-mounted single drives [Industrial / Servo Drives]

Un = 400V (340-500V) The rated power is valid at the rated voltage of 400V (1.5-450-1400kW)

Nominal ratings			Light-overload		Heavy-duty		Noise	Heat	Air flow	Model Number	Resistor	Frame size (mm)
P _N kW	I _N A	I _{max} A	I _{LD} A	P _{LD} kW	I _{HD} A	P _{HD} kW	dBA	W	m ³ /h			
1.5	3.3	4.1	3.1	1.5	2.4	0.75	45	50	25	ACS880-E22-03A3-3B	>=72Ω	E2 (W100 H300 D230)
2.2	5.6	6.8	5.3	2.2	4.0	1.5	45	76	30	ACS880-E23-05A6-3B	>=72Ω	
4.0	9.5	12	8.8	4.0	5.6	2.2	45	97	40	ACS880-E24-09A8-3B	>=72Ω	
5.5	12.9	16	12	5.5	9.4	4.0	45	175	50	ACS880-E25-12A6-3B	>=72Ω	
7.5	17	21	17	7.5	13	5.5	45	210	55	ACS880-E26-017A-3B	>=39Ω	
11	25	30	24	11	17	7.5	45	325	60	ACS880-E27-025A-3B	>=39Ω	
15	32	42	32	15	25	11	57	500	100	ACS880-E32-032A-3B	>=20Ω	E3 (W145 H400 D270)
18.5	38	54	37	18.5	32	15	57	550	125	ACS880-E33-038A-3B	>=20Ω	
22	45	64	45	22	38	18.5	57	660	145	ACS880-E34-045A-3B	>=20Ω	
30	61	76	58	30	45	22	59	890	200	ACS880-E42-061A-3 / B ¹⁾	>=10Ω	E4 (W250 H400 D300)
37	72	104	71	37	61	30	59	1114	250	ACS880-E43-072A-3 / B ¹⁾	>=8Ω	
45	87	122	85	45	75	37	59	1140	290	ACS880-E44-087A-3 / B ¹⁾	>=8Ω	
55	115	148	110	55	91	45	59	1200	320	ACS880-E52-105A-3 / B ¹⁾	>=5.2Ω	E5 (W290 H680 D350)
75	145	179	143	75	112	55	59	1440	340	ACS880-E53-145A-3 / B ¹⁾	>=5.2Ω	
90	182	247	176	90	150	75	67	1940	400	ACS880-E54-169A-3 / B ¹⁾	>=3.3Ω	
110	226	287	212	110	184	90	67	2200	550	ACS880-E62-206A-3 / B ¹⁾	>=2.3Ω	E6
132	246	350	241	132	225	110	67	3300	650	ACS880-E63-246A-3 / B ¹⁾	>=2.3Ω	
160	293	418	283	160	266	132	68	3850	680	ACS880-E72-293A-3 / B ¹⁾	>=1.7Ω	
200	363	498	355	200	293	160	68	4100	700	ACS880-E73-363A-3 / B ¹⁾	>=1.7Ω	
250	487	545	450	250	387	200	68	4600	720	ACS880-E74-487A-3 / B ¹⁾	>=1.7Ω	
280	546	628	526	280	480	250	68	5100	950	ACS880-E83-546A-3 / B ¹⁾	>=1.7Ω	E8 (W380 H1660 D535)
315	624	718	615	315	546	280	68	5782	1100	ACS880-E84-624A-3 / B ¹⁾	>=1.7Ω	
400	760	874	727	355	568	315	68	6252	1200	ACS880-E85-760A-3 / B ¹⁾	>=1.7Ω	
450	865	1080	865	450	675	355	68	7860	1350	ACS880-E86-865A-3 / B ¹⁾	>=1.7Ω	

UN = 690 V (range 525 to 750 V). The power ratings are valid at nominal voltage 690 V

Nominal ratings			Light-overload		Heavy-duty		Noise	Heat	Air flow	Model Number	Resistor	Frame size (mm)
P _N kW	I _N A	I _{max} A	I _{LD} A	P _{LD} kW	I _{HD} A	P _{HD} kW	dBA	W	m ³ /h			
45	49	71	47	45	42	37	59	1120	290	ACS880-E50-049A-6 / B ¹⁾	>=22Ω	E5 (W290 H680 D350)
55	61	104	58	55	49	45	59	1295	320	ACS880-E51-061A-6 / B ¹⁾	>=13Ω	
75	84	124	80	75	61	55	59	1440	340	ACS880-E52-080A-6 / B ¹⁾	>=13Ω	
90	98	168	93	90	84	75	67	1940	400	ACS880-E53-098A-6 / B ¹⁾	>=8Ω	
110	119	198	113	110	98	90	67	2310	550	ACS880-E54-119A-6 / B ¹⁾	>=8Ω	
132	142	220	135	132	119	110	67	3300	650	ACS880-E63-142A-6 / B ¹⁾	>=6Ω	E7 (W425 H900 D390)
160	174	274	165	160	142	132	68	3922	680	ACS880-E72-175A-6 / B ¹⁾	>=4Ω	
200	210	384	200	200	174	160	68	4822	700	ACS880-E73-210A-6 / B ¹⁾	>=4Ω	
250	271	411	257	250	210	200	68	6000	720	ACS880-E74-271A-6 / B ¹⁾	>=4Ω	
280	300	450	290	280	265	250	68	5800	950	ACS880-E82-295A-6 / B ¹⁾	>=2.7Ω	
315	330	480	320	315	295	280	68	6120	1100	ACS880-E83-325A-6 / B ¹⁾	>=2.7Ω	
355	370	520	360	355	325	315	68	6800	1200	ACS880-E84-360A-6 / B ¹⁾	>=2.7Ω	
400	430	520	420	400	415	355	68	7000	1350	ACS880-E85-420A-6 / B ¹⁾	>=2.7Ω	
450	470	655	455	450	455	400	72	7200	1300	ACS880-E86-450A-6 / B ¹⁾	>=2.7Ω	
500	522	655	505	500	505	450	72	8500	1350	ACS880-E87-505A-6 / B ¹⁾	>=2.7Ω	
560	590	800	570	560	515	500 ²⁾	72	9500	1450	ACS880-E88-571A-6 / B ¹⁾	>=2.7Ω	

P_N: Typical motor power in Nominal load use. I_N: Rated current available continuously without overload at 40 ° C.
 I_{max}: Max. current, Available for 10 seconds at start, then as long as allowed by drive temperature.
 I_{LD}: Continuous current allowing 110% I_{LD} for 1 minute every 5 minutes at 40 ° C, for typical motor power in light-overload use.
 I_{HD}: Continuous current allowing 150% I_{HD} for 1 minute every 5 minutes at 40 ° C, for typical motor power in heavy-duty use.
 The ratings apply at 40 ° C ambient temperature. At higher temperatures (Up to 55 ° C) the derating is 1%/1° C. 1). 150% overload.

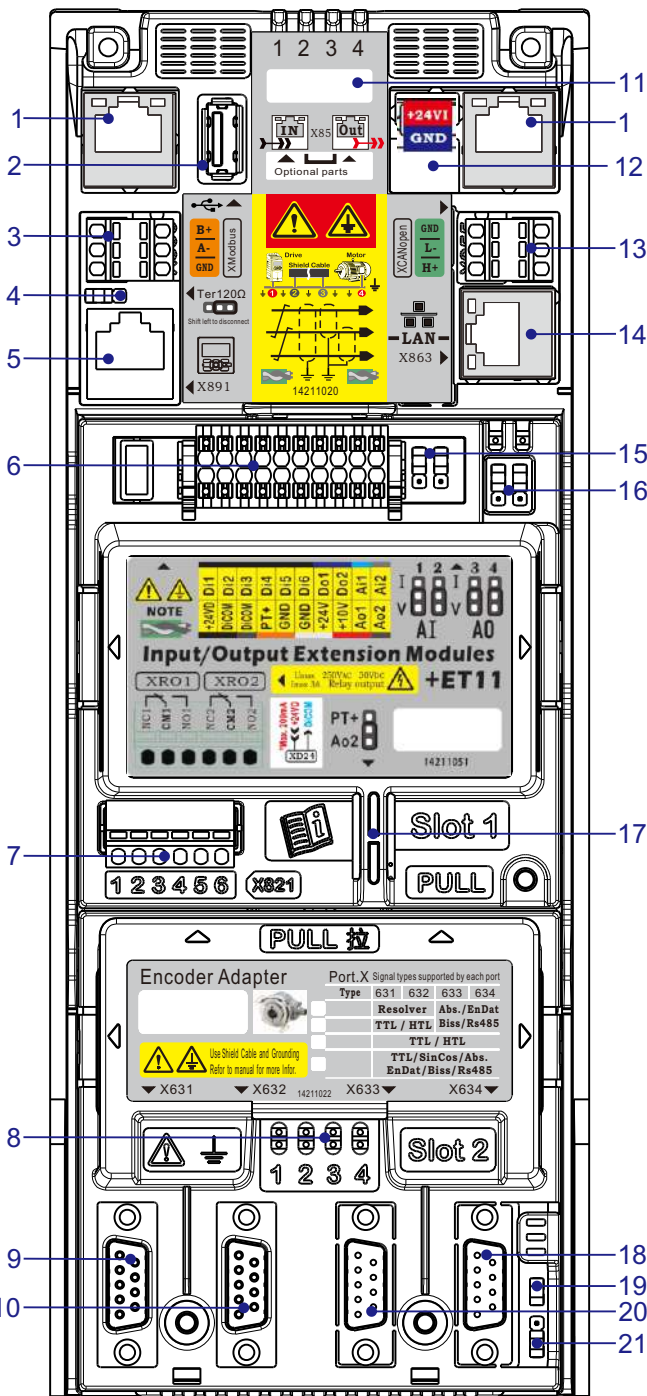
Frame

E

ACS880



The E series drive control unit is an upgraded control unit from the B series. Each option is modularized, supports a variety of standard interfaces, and interfaces with mainstream high-speed fieldbus options. The following figure shows the basic functions and basic attention of each interface based on the standard universal. For more information, please refer to the manual or contact the relevant representative to further clarify your needs.



1	X85 IN	Optional Field Bus Ports for EtherCAT、ProfiNET Type labeled at Flag 11
2	USB	USB to U drive for Configure storage,FAT32 format
Xmodbus communication terminal		
3	B+ A+ GND	Modbus ports :EIA-485 High speed fieldbus,Protocol configuration reference manual The wiring should with GND wire, A / B twisted pair, and shielded to enhance electromagnetic anti-interference
4	Ter120Ω	Modbus/CAN.Ter. resistor, shift left to disconnect
5	X891	Panel port, Max.30m extension by cable and External EMC
XD24V Ports Auxiliary voltage output, digital input interlock		
	+24VD	DI reference supply ,+24V DC 0-200mA,or for external sensors
	DICOM	Digital signal input/output ground
XPT Ports for temperature sensor in from motor / choke or others		
	PT+	Sensor as KTY84、PT100、PT1000、PTC etc, configuration parameter and cable with twisted&Shield&Strong insulation
	GND	
XPWOut port as power output from Drive		
	GND	Signal ground
	+24V	Only external low-power sensors, +24V DC Max.400mA
	+10V	Analog reference power supply, R=1k~10kohm
XAO Ports Analog outputs		
	AO1	Type with 0-20mA RL<500 ohm,Voltage:0-10V DC It is used to configure the speed, torque, current and other . Easily interfered ,be with twisted pair, shielding, grounding, etc.
	AO2	
6	XAI Ports Analog inputs	
	AI1	Current type: -20~+20mA,0~20mA,Rin=100kohm
	AI2	Voltage type: 0~+10V, -10~+10V, Rin=500ohm
XDI Digital and high-speed pulse input , with rich and flexible functions		
	DI1	(As default) = DI1:Stop (0)/Start (1), DI2: Forward (0)/Reverse (1) or for other function by parameters.
	DI2	
	DI3	DI3/4/5/6, Define its functions by parameters and pointers
	DI4	DI1/2/3:ON/OFF input only.
	DI5	DI4/5/6:ON/OFF or Plus input.f<=100kHz,or HTL encoder A、
	DI6	B、Z signal input, by paramete to NPN/PNP、encoder、etc.
all DI terminals support internal power 24V ,support the voltage input of external power (-20%24-48vdc(+10%)and (-10%)24-48vac(+10%)		
XDO Digital and high-speed pulse output , with rich and flexible functions		
	DO1	ON/OFF output(I<0.5A),or Pulse output(f<=120kHz)
	DO2	by paramete to switch NPN/PNP、pluse output、etc.
XRO Ports of Relay output		
	NC1	Running, or others by parameters
	CM1	RO1 250V AC / 30V DC
	NO1	3A
	NC2	Faulted, or others by parameters
	CM2	RO2 250V AC / 30V DC 3A
	NO2	
7		
8	1 2 3 4	LED indicator to Encoder of prot.631/632/633/634
9	631	Resolver/TTL/HTL/SinCos/Abs/EnDat/Biss/Rs485
10	632	
11	Lable	EtherCAT or Profinet type shown
12	24V(+) GND(-)	External power input DC24V 1A. For multi-module drives,this interface may be an extended port driver. When the main power supply is missing, parameter configuration and debugging of this power supply can be performed
XCANopen Ports		
	GND	CANopen ports :EIA-CAN Terminal R ON/OFF by parameter
	L-	Protocol configuration refer to manual The wiring should with GND wire, A / B twisted pair, and shielded to enhance electromagnetic anti-interference, 1939 type in coming soon
	H+	
13	LAN X863	EtherNET/IP,TCP/IP,Modbus-TCP,Remote debugging, multi-Drive linkage control to Host computer hub
14	AI	Ai Jumper, move up current type, move down voltage type
15	AO	AO Jumper, move up current type, move down voltage type
16	PT+ /AO2	PT+/Ao2 jumper , move up by PT+, down by Ao2 function
17	634	
18	634	Resolver/TTL/HTL/SinCos/Abs/EnDat/Biss/Rs485
19	633	
20	633	Resolver/TTL/HTL/SinCos/Abs/EnDat/Biss/Rs485
19	J5/PE/J6	GND/DICOM to PE connection switch cap,Depending on the level of EMC interference and the required switching
21		