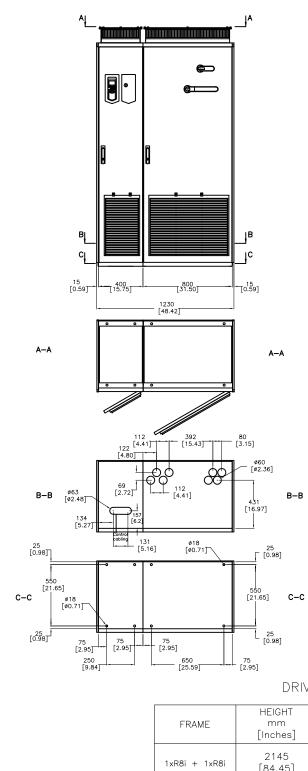
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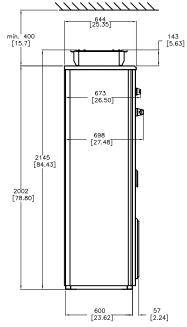


Pumpsmart® PS220 **Drive Dimensions and Ratings** Frame 1xR8i + 1xR8i-NEMA1/ IP22 ACS880-37 ULH

PumpSmart PS220 pump and motor Control System

The PumpSmart PS220 is a pump and motor control system that provides integral starting, right-sizing, pump protection and process control for all pumping applications. The PumpSmart PS220 is based upon the ABB ACS880-01 variable frequency drive platform. PumpSmart Control Solutions has worked with ABB to incorporate proprietary pump protection, process control and configuration algorithms into the drive to make it more suitable for pumping applications





DRIVE DIMENSIONS

FRAME	HEIGHT	WIDTH	DEPTH	WEIGHT
	mm	mm	mm	Kg
	[Inches]	[Inches]	[Inches]	[Ibs]
1xR8i + 1xR8i	2145	1230	698	1180
	[84.45]	[48.42]	[27.48]	[2602]

* DIMENSIONS NOT FOR CONSTRUCTION

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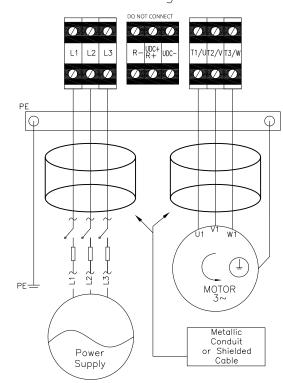
Pumpsmart® PS220 **Drive Dimensions and Ratings** Frame 1xR8i + 1xR8i-NEMA1/ IP22 ACS880-37 ULH

PumpSmart[®]

Drive Ratings														
ITT P/N	ABB P/N	Input Voltage	oltage Pov		Rated Current ²	Heat Dissipation				Frame	Enclosure	Recommended Mair Fuses		
	ADD F/N	(VAC)	ΗP		(A)	Watts	BTU/hr	m ³ /hr	CFM	riune	Rating	UL Type Bussmann	IEC Type Bussmann	
K03566A01	ACS880-37-0450A-3+X1556	380 - 415	NA	250	432	14000	47770		3760 2215			170M6411	170M6411	
K03566A02	ACS880-37-0620A-3+X1556	380 - 415	NA	355	595	18000	61419						170M6413	170M6413
K03566A03	ACS880-37-0870A-3+X1556	380 - 415	NA	500	835	27000	92128			1.50		170M6416	170M6416	
K03568A01	ACS880-37-0420A-5+C129+ X1556	440 - 500	350	250	403	13000	44358					170M6411	170M6411	
K03568A02	ACS880-37-0570A-5+C129+ X1556	440 - 500	500	400	547	17000	58006	3760		2215	5 1×R8i + 1×R8i		170M6413	170M6413
K03568A03	ACS880-37-0780A-5+C129+ X1556	440 - 500	700	560	749	25000	85304					170M6416	170M6416	
K03570A01	ACS880-37-0320A-7+C129+ X1556	525 - 600	350	315	307	16000	54594					170M6408	170M6408	
K03570A02	ACS880-37-0390A-7+C129+ X1556	525 - 600	400	355	374	19000	64831					170M6410	170M6410	
K03570A03	ACS880-37-0580A-7+C129+ X1556	525 - 600	600	560	557	26000	88716					170M6413	170M6413	

1- Nominal Power Rating at listed voltage rating2- Contiunous base current with 10% overload for 1 min/5 minutes

Power Cabling Schematic



General Notes: 1-360 Grounded terminations are required 2-Ultra-rapid fuses are required to protect drive Operating time must be less than 0.5 sec. Refer to Technical Data section for details

		Terminals T1/U, T2	Earthing PE Terminal								
	Frame Size	Wire Size AWG			que	Max. Wire S AWG	Size	Screw	Torque		
		(mm ²)	Screw	N-m	Lb-ft	(mm ²)		Screw		Lb-	-ft
	1×R8i + 1×R8i		SEE AC	S880-3	37 HAR	dware mai	NUAI	_			
	Copyright 20 ITT. corp	Drawing is not to scale	Issue:		Drawn: H	ICLT 03-14-17	Drawin	5		Revision	Sheet:
No reproduction without permission		t Dimensions in mm(Inches)			Checked:	XXX XX-XX-XX	K07330,		JA	0	2 of 3

ENGINEERED FOR LIFE	PRO services	Drive Dimens Frame 1xR8i + 1	nart [®] PS220 sions and Ratings 1xR8i-NEMA1/ IP22 80-37 ULH	Pump	Smart®	
PumpSmart [®] PS2 Drive Hardware: ABE CERTIFICATIONS 600VAC and Below UL Listed Canadian UL Listed			Accuracy Maximum Load Impedo	0(4) to 20mA 0.025% (12bit) (1 +/-1% of Full Sc ance500 ohms 1 ms (primary Cc	ale Range	
INPUT POWER Voltage Overload Frequency Fundamental Power Factor(Cos Φ ₁) Efficiency	110% for 1min 140-150% for 4863Hz CosΦ ₁ =0.98 (fu CosΦ ₁ =0.939	/5 min, 10 sec at startup undamental) 5 (total)	Start Interlock Isolation Test Voltage Isolation Test Voltage Input Type Signal Level Rin Logical switch threshol	500VAC, 1 minute NPN/PNP (DI1D 24Vdc	15), NPN (D16) Wdc at "1" 1 to Digital Inpu	
MOTOR CONNECTION Voltage Frequency Field Weakening Point Switching Frequency Short Circuit Withstand	0 to U1, 3–F Umax at the 0500Hz 2.7KHz (average) Rating	field weakening point (UL) R1-R9	Input Updating Time Control Program) Internal 24Vdc Supply Voltage Maximum Current Connector Protection	tDigital Filter .(Digital Filtering u for Digital Inputs 24Vdc 200mA XD24.2 and XD24.4	'4ms. 5 to 8ms.(Primary	
Connection	in the hard	cted by fuses given dware manual.	DIGITAL INPUTS/OU Two(2) programmable	Digital Inputs/Outputs		
ENVIRONMENTAL LIM Enclosures Temperature Humidity Altitude	NEMA 1/IP22 5131*F(-15tc 104131*F(40- de-rating (1%/ 595% Relative 03300 Ft(0-1	50C) with (1C) Humidity (000M) Standard (10004000M) with	w Output Configuration with 4 microsecond ho Signal Level Rin Logical Input switch th Filtering Time Constant	DIO1 frequency ith 4 microsecond hardw DIO2 frequency ardware filtering) 24Vdc 2.0Kohm nresholds<5Vdc at "0", t0.25ms 	vare filtering) output(016KHz >15Vdc at "1"	
Vibration	Max.7 m/s ² (2 HZ,Sinusoidal	in.) 5-13.2 Hz 3ft/s ²) 13.2-100	Maximum Continuous (Protection	Relay Outputs 2 A at 30Vdc CurrentC=2 Amps R Varistors (250 1 ms (Primar Program)	MS IV)	
Common Mode Voltage	Itage Signals0(4) to RI=> -10Vc Input 	5Vdc,max.	REFERENCE POWER ce Voltage Maximum Load hms Applicable Potentiomet	+10Vdc,0,-10Vdc+/- 25°C (77°F)		
Accuracy Input Updating Time	0.0259 +/-0 1 ms	% (12bit) (11 bit+Sign bi .5% of full Scale Range (Primary Control Program ble through optional exte	Communication m) Modules	Modbus, Profibus Ethernet, DeviceNo		
Copyright 2016 ITT. corp No reproduction without permission	Drawing is not to scale Dimensions in mm(Inches)	Issue:	Drawn: HCLT 03-14-17 Checked: XXX XX-XX-XX	Drawing K07330A	Revision Shee	