PRODUCT NOTE

IEEE 841XL P-Base vertical solid shaft motors

Uncompromised reliability

BALDOR • RELIANCE

Baldor-Reliance® Severe Duty IEEE 841XL P-base vertical solid shaft motors have lower vibration and superior positive bearing lubrication which makes this the ideal motor for your severe duty pumping applications.

Designed to provide outstanding performance, reliability and ease of maintenance. This P-base vertical motor is the most cost-effective solution for waste water, oil and gas and chemical processing applications. The features of IEEE 841XL motors make it an excellent choice for any application that would benefit from longer service life and reduced maintenance.

Upgrade to the Baldor-Reliance 841XL motor in place of your standard duty or severe duty motor. It is engineered to provide the highest efficiency and reliability under the harshest conditions. It has been designed to suit any of your pumping needs and provide years of uninterrupted service.

IP55 sealing provides superior protection from ingress of contaminants into the bearings and motor housing. The premium efficient winding insulation system is designed for inverter use. These motors meet or exceed NEMA MG1 part 31.4.4.2

The new 841XL P-Base vertical solid shaft motors are available when you need them and where you need them. They are stocked in locations across the country.

From stock, we have designs to support your medium an high thrust load requirements.

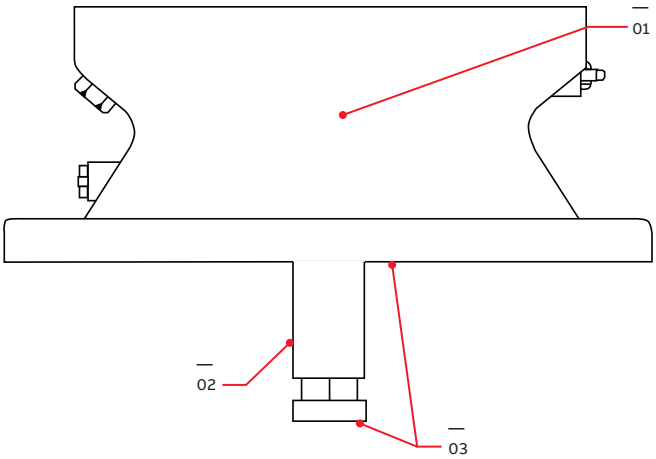
- **Medium thrust LP**
- **High thrust VP**

Available custom options

- API 610 compliant construction
- Non stock horse power or base speed ratings
- Bearing isolation
- Custom shaft
- Custom mounting face

Standard features - 460 VAC

Medium thrust LP range	3 to 40
Frame	180LP - 360LP
High thrust VP range	50 to 75
Frame	320VP - 365VP
Poles	2, 4
Bearing caps	Sealed, cast iron
Bearing protection	INPRO seal on both ends frames 180 - 360
Sealed lead opening	Leads are individually sealed
Nameplate	Stainless steel
Drain	Stainless steel T-drain
Fasteners	Grade 5
Efficiency	Meets or exceeds NEMA table 12-12
Lubrication	Exxon Mobil Polyrex EM
Inverter capabilities	Meets NEMA MG-1 part 31.4.4.2
Classification	Class I, Division 2, Group A,B,C,D
Insulation system	Class F insulation with B rise
NEMA design	B
Ground	Frame ground lug and ground connection in oversized conduit box
Service factor @ 40C	1.15
Drip cover	Cast iron
Warranty	5 years
Documentation	Performance and vibration test results ship with each motor
Unfiltered vibration (2 and 4 pole)	.008 in/sec peak velocity measured in any direction
LP (Medium thrust)	
Shaft run-out	.001 inch Total Indicator Reading (TIR)
Face to shaft perpendicularity	.004 inch Total Indicator Reading (TIR)
HVP (High thrust)	
Shaft run-out	.002 inch Total Indicator Reading (TIR)
Face run-out	AK (face rabbet) = 8.25 inch .001 inch TIR AK =13.5 inch .006 TIR



01 - The load bearing is in the ODE end plate to protect it from the heat

02 - Special balance to reduce vibration. Less vibration provides longer motor life and reduces wear on the connected equipment.

03 - Reduced face and shaft run out provides better alignment to the pump shaft and mount. Better equipment alignment provides less vibration and less mechanical stress on the motor and connected equipment.

P-Base IEEE 841 XL motor family, medium thrust

Hp	RPM	NEMA frame	Enclosure	Catalog number	List price	Mult. sym.	Voltage
3	3600	182LP	TEFC	VLECP83660T-4	3,126	PV3	460
	1800	182LP	TEFC	VLECP83661T-4	3,202	PV3	460
5	3600	184LP	TEFC	VLECP83663T-4	3,576	PV3	460
	1800	184LP	TEFC	VLECP83665T-4	3,341	PV3	460
7-1/2	3600	213LP	TEFC	VLECP83769T-4	4,350	PV3	460
	1800	213LP	TEFC	VLECP83770T-4	3,972	PV3	460
10	3600	215LP	TEFC	VLECP83771T-4	4,336	PV3	460
	1800	215LP	TEFC	VLECP83774T-4	4,502	PV3	460
15	3600	254LP	TEFC	VLECP82394T-4	5,972	PV3	460
	1800	254LP	TEFC	VLECP82333T-4	5,723	PV3	460
20	3600	256LP	TEFC	VLECP84106T-4	6,450	PV3	460
	1800	256LP	TEFC	VLECP82334T-4	5,968	PV3	460
25	3600	284LP	TEFC	VLECP84107T-4	8,909	PV3	460
	1800	284LP	TEFC	VLECP84103T-4	8,562	PV3	460
30	3600	286LP	TEFC	VLECP84108T-4	9,814	PV3	460
	1800	286LP	TEFC	VLECP84104T-4	9,313	PV3	460
40	3600	324LP	TEFC	VLECP84109T-4	13,962	PV3	460
	1800	324LP	TEFC	VLECP84110T-4	13,093	PV3	460

P-Base IEEE 841 XL motor family, high thrust

Hp	RPM	NEMA frame	Enclosure	Catalog number	List price	Mult. sym.	Voltage
50	3600	326VP	TEFC	VPECP84114T-4	12,132	PV3	460
	1800	326VP	TEFC	VPECP84115T-4	11,936	PV3	460
60	3600	364VP	TEFC	VPECP84310T-4	18,758	PV3	460
	1800	364VP	TEFC	VPECP84314T-4	18,262	PV3	460
75	3600	365VP	TEFC	VPECP84313T-4	19,464	PV3	460
	1800	365VP	TEFC	VPECP84316T-4	18,534	PV3	460

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9AKK107706 11.2020