ELECTRIC MOTOR

THE SURFACE SOLUTION FOR YOUR PCP OPERATIONS

keep it moving

PCM offer the best suitable motor to run your Progressing Cavity Pump system safely and durably.

Asynchronous motor selected are adapted for PCP drivehead used and oilfield conditions to ensure high energy efficiency. A proper motor selection should be done to be adapted to your field hazardous area.

FEATURES

- IEC Exna , IEC ExD, NEMA explosion proof or GOST standard
- From 11 kW to 110kW
- 4 poles or 6 poles motor
- Feet or flange mounted type

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TYPE OF MOTOR

Motors are mainly mounted on PCP Drivehead vertically with shaft up which require re-inforced shaft top sealing to avoid external pollution to enter in the motor & re-inforced motor shaft bearing to support its shaft weight.

- **IEC ExnA: Non sparking** (ATEX zone 2 & 22)
No arcs, sparks of hot surface
- **IEC ExD: Flame proof** (ATEX zone 1 & 21)
Contains the explosion and prevents flame prolongation

Features

- Asynchronous - 3 phases - 400/690V - 50Hz - IE2
- Cast iron IP 55
- Isolation class F
- Temperature rise class B
- Alt. < 1 000 m
- Operating temperatures from -40°c to +50°c
- Hygro max 90%
- PTC sensor- Drain plug

TYPE OF FIXATION

Generally PCP driveheads have motor base plate for foot mounted motor, but alternative option could be proposed.

B3 - Foot mounted

B5 - Flange mounted
(IEC = FF flange /
Nema = "D-flange")

B14 - Face mounted with tapped holes
(C-face / FC flange)

Other type of fixation:

- B35 - B3 foot + B5 flange mounted
- B34 - B3 + B14 flange mounted

Note:

- Several options are available under requests (such as space heater, cold or hot weather, 60 Hz, ...)
- PCM used in standard IEC motor, but NEMA or GOST motor could also be provided under request.

MAIN SPECIFICATIONS (IEC MOTORS)

• 4 poles - 1485 RPM

W	HP	FRAME			WEIGH		MOTOR TORQUE	TORQUE @ DH	
		FEET	FF	FC	Exd	ExnA		300 RPM	400 RPM
								5,0	3,7
11	15	160M	FF300	C184	130 kg	103 kg	73 Nm	361 Nm	271 Nm
15	20	160L	FF300	C184	155 kg	120 kg	99 Nm	490 Nm	368 Nm
18,5	25	180M	FF300	C228	175 kg	135 kg	122 Nm	604 Nm	453 Nm
22	30	180L	FF300	C228	195 kg	184 kg	142 Nm	703 Nm	527 Nm
30	40	200L	FF350	C228	305 kg	260 kg	193 Nm	955 Nm	717 Nm
37	50	225S/M	FF400	C279	330 kg	290 kg	237 Nm	1 173 Nm	880 Nm
45	60	225S/M	FF400	C279	365 kg	388 kg	289 Nm	1 431 Nm	1 073 Nm
55	75	250S/M	FF500	C355	540 kg	395 kg	353 Nm	1 747 Nm	1 311 Nm
75	100	280S/M	FF500	C355	780 kg	475 kg	482 Nm	2 386 Nm	1 789 Nm
90	125	280S/M	FF500	C355	830 kg	565 kg	578 Nm	2 861 Nm	2 146 Nm
110	150	315S/M	FF600	C368	1 070 kg	850 kg	708 Nm	3 505 Nm	2 628 Nm

• 6 poles - 985 RPM

KW	HP	FRAME			WEIGH		MOTOR TORQUE	TORQUE @ DH		
		FEET	FF	FC	Exd	ExnA		200 RPM	300 RPM	400 RPM
								4,9	3,3	2,5
11	15	160L	FF300	C228	145 kg	128 kg	109 Nm	537 Nm	358 Nm	268 Nm
15	20	180L	FF300	C228	180 kg	170 kg	148 Nm	729 Nm	486 Nm	364 Nm
18,5	25	200L	FF350	C228	305 kg	240 kg	182 Nm	896 Nm	598 Nm	448 Nm
22	30	200L	FF350	C228	305 kg	260 kg	213 Nm	1 049 Nm	699 Nm	525 Nm
30	40	225S/M	FF400	C279	350 kg	392 kg	291 Nm	1 433 Nm	955 Nm	717 Nm
37	50	250S/M	FF500	C355	530 kg	394 kg	359 Nm	1 768 Nm	1 179 Nm	884 Nm
45	60	280S/M	FF500	C355	780 kg	455 kg	436 Nm	2 147 Nm	1 432 Nm	1 074 Nm
55	75	280S/M	FF500	C355	830 kg	532 kg	533 Nm	2 625 Nm	1 750 Nm	1 313 Nm
75	100	315S/M	FF600	C368	1 080 kg	850 kg	727 Nm	3 580 Nm	2 387 Nm	1 790 Nm
90	125	315S/M	FF600	C368	1 080 kg	1 000 kg	873 Nm	4 300 Nm	2 866 Nm	2 150 Nm
110	150	315S/M	FF600	C368	1 130 kg	1 050 kg	1 067 Nm	5 255 Nm	3 503 Nm	2 627 Nm

Note: Detailled specifications could be provided upon request