C.R.I. PUMPS
Pumping trust... Worldwide.

PERIPHERAL, JET & CENTRIFUGAL MONOBLOCK PUMPS - 50Hz

An ISO 9001 & 14001 Company

CE*

* For Specific models only.

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THE BEGINNING

of C.R.I., way back in 1961, was a resolute attempt to produce a few irrigation equipments using the limited facilities of an in-house foundry. Eventually the founder's dream was coming true as the small production unit he started kept growing rapidly. Now, after more than five eventful decades, it is an enormous, widely reputed organization, which produces more than 2300 varieties of perfectly engineered pumps and motors and sells its products in numerous countries spread across 6 continents.

C.R.I. IS ONE AMONG

the few pioneers in the world to produce 100% stainless steel submersible pumps. Having achieved a record production capacity of over 2 million pumps per annum, today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

THE INFRASTRUCTURE

of C.R.I. is pretty comprehensive with state-of-the-art machineries and high potential in-house R&D recognised by the ministry of science and technology, Govt. of India - all within its own covered area of 300,000 square metres. The production environment is accredited with ISO 9001, and the products are CE, IEC, TSE & ISI certified. The R&D team always stays in tune with the changing scenario and seldom fails in coming up with outstanding solutions every time.

NEEDLESS TO SAY,

behind this legendary growth lies the untiring, innovative, enthusiastic and dedicated team work. and, of course, a flawlessly maintained value system too. The name C.R.I. itself encapsulates the company's ethos: " Commitment, Reliability, Innovation".

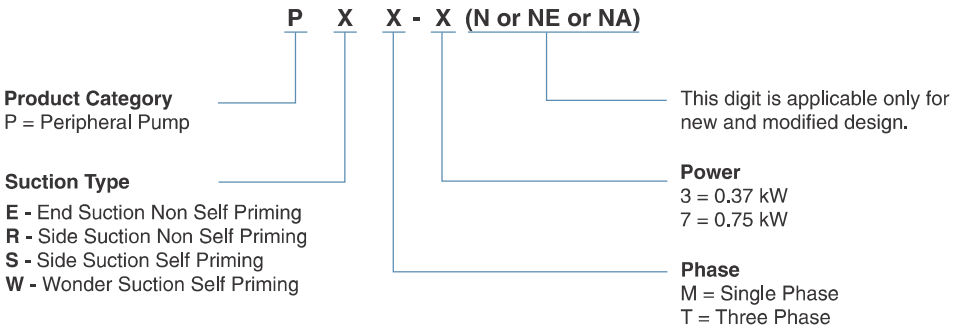
Peripheral, Jet & Centrifugal Monoblock Pumps - 50Hz

CONTENT

PERIPHERAL PUMPS - 50Hz

PE SERIES

Model Identification Code (MIC)



Description:

PEM-3NE, 0.37kW, 50Hz, 230V, 1Ph, 1" x 1" Peripheral End Suction Pump

PEM-7N, 0.75kW, 50 Hz, 230V, 1Ph, 1" x 1" Peripheral End Suction pump

Peripheral Pumps

PE Series

Description

Peripheral pumps are non-self-priming monoblock type supplied with peripheral impeller for higher head requirement. These pumps are rigid in construction and compact design. Peripheral pumps are powered by a totally enclosed fan cooled single phase motor suitable for continuous duty. Monoblock construction eliminates loss of energy while transmitting the energy from motor to pump. All single-phase pumps are thermally protected.

Features

- Silent operation
- Sturdy and compact design
- Thermal protection

Applications

- Residential
- Garden
- Fountain
- Pressure boosting
- Landscaping
- Feed water supply in domestic RO

Operating Data - Pump

Flow	to 2.5m³/h
Head	to 54m
Power	0.37 & 0.75kW
Speed	2850 rpm
Suction Size	1"
Delivery Size	1"
Liquid Temperature	to 35°C
Max. Ambient Temperature	40°C
Shaft seal	Mechanical seal
Impeller Type	Peripheral
Max. Working Pressure	to 5.4bar

Specifications - Motor

Power	0.37 & 0.75 kW
Voltage	220-230V, Single Phase
Frequency	50 Hz
Speed	2850 rpm
Class of Insulation	B
Ingress Protection	IP 54
Duty	S1 Continuous
Max. Ambient Temp.	40°C

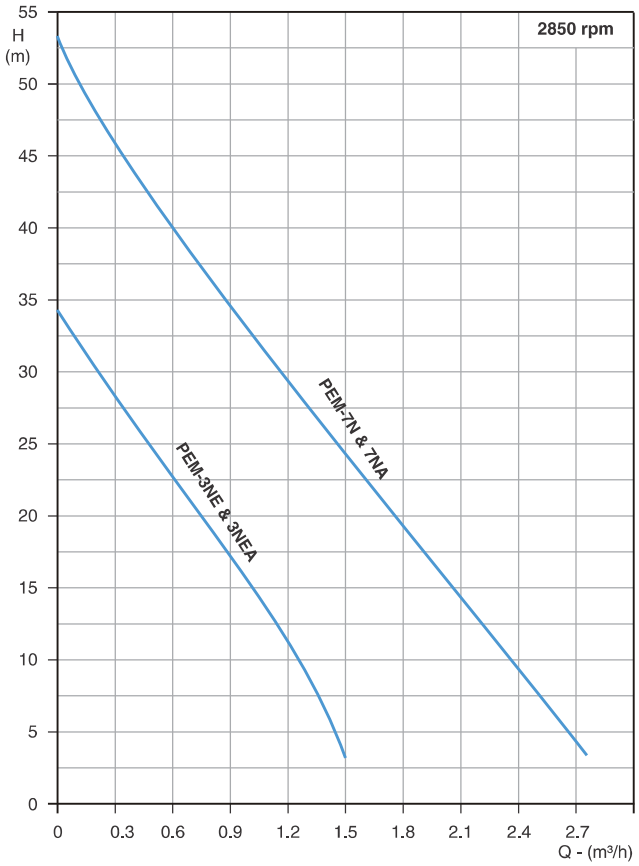
Material of Construction

Part Name	Material (EN / DIN / SAE)
Pump Body	Aluminum - ADC-12 / ASTM A383 ADC-12
Impeller	CW612N / 2.0380 / ASTM B287 C37700
Shaft	EN8 / CK45 / ASTM A1045
Pump Support & Back Cover	Cast Iron - EN-GJL220 / GG20 / ASTM A48 Class 30B
Terminal Cover	Engineering Plastic
O Rings	NBR (Buna - N)
Mechanical seal	Ceramic & Carbon

Peripheral Pumps

PE SERIES

Performance Curves



Performance Table

Single Phase 220V-230V, 50Hz

Pump Model		Power		Current (Amps)	Suction & Delivery Size (Inches)	Flow (Q)	lpm	0	5	6.6	10	11.6	15	18.3	20	25	30	35	40	Max. Suction Lift (m)
		kW	HP				m³/h	0	0.3	0.4	0.6	0.7	0.9	1.1	1.2	1.5	1.8	2.1	2.8	
PEM-3NE	PEM-3NEA	0.37	0.5	2.5	1 x 1	Head (m)		34.5	28	26	22.5	21	17	14	12	7	3	-	-	6
PEM-7N	PEM-7NA	0.75	1	4.5	1 x 1			53	46	44	40	38	35	30	29	24	20	15	3	6

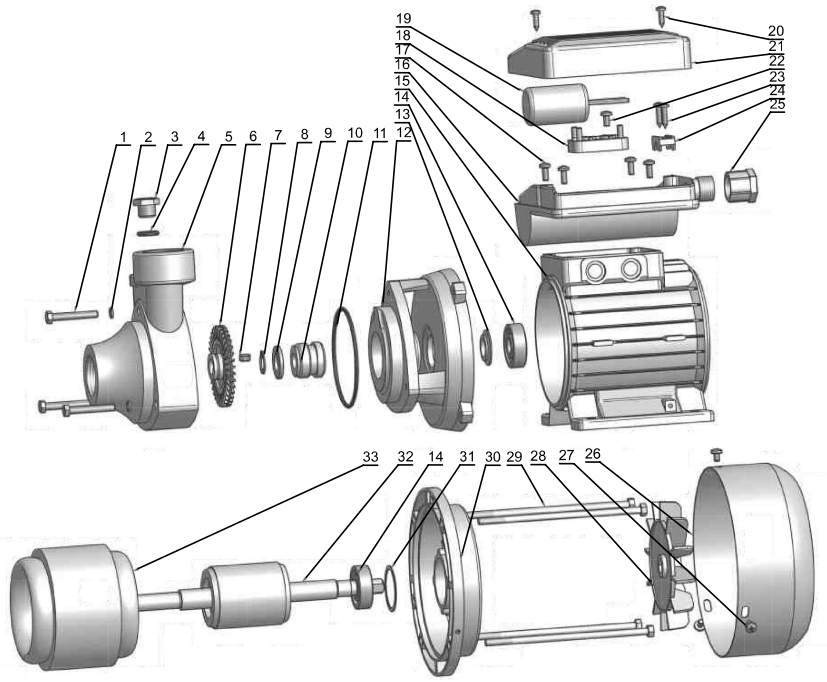
Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 3B

In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice

Peripheral Pumps

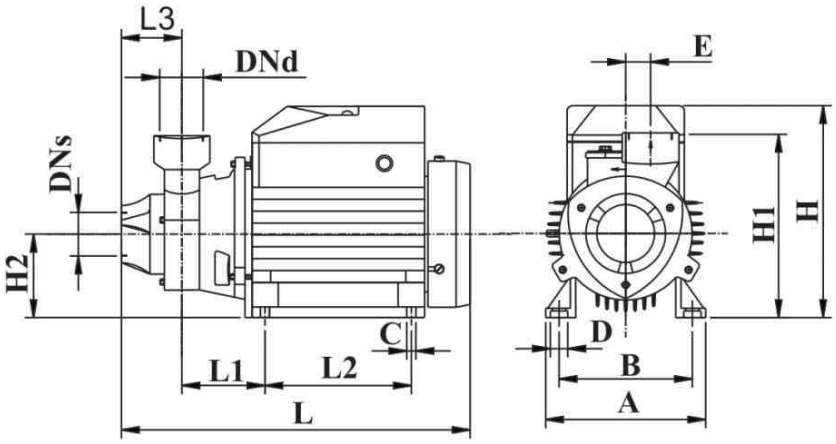
PE SERIES

Exploded View



Part No.	Part Name
1	Bolt
2	Spring washer
3	Screw
4	O ring
5	Pump body
6	Impeller
7	Key
8	Snap Ring
9	Flat gasket
10	Mechanical Seal
11	O ring
12	Pump support
13	Water Deflector
14	Bearing
15	Motor housing
16	Terminal box
17	Screw
18	Terminal board
19	Capacitor
20	Screw
21	Terminal cover
22	Screw
23	Screw
24	Cable Grommet
25	Nut
26	Fan Cover
27	Screw
28	Fan
29	Bolt
30	Back cover
31	Wave washer
32	Rotor
33	Stator

General Arrangement Drawing (GAD)



Dimensions and Weight Data

PUMP MODEL		POWER (kW)	L1	L2	L	A	B	C	D	E	H	H1	H2	L3	DNs	DNd	NET WEIGHT (kg)
PEM-3NE	PEM-3NEA	0.37	62	83	256	116	98	7	9	17	166	135	61	44	25	25	5.3
PEM-7N	PEM-7NA	0.75	69	90	310	131	110	9	14	23	181	150	71	50	25	25	8.85

All dimensions are in mm