

THE HARD WORKING PUMP

The result of superior technology and expertise that has stood the test of time.



CENTRIFUGAL PUMPS **50 Hz**

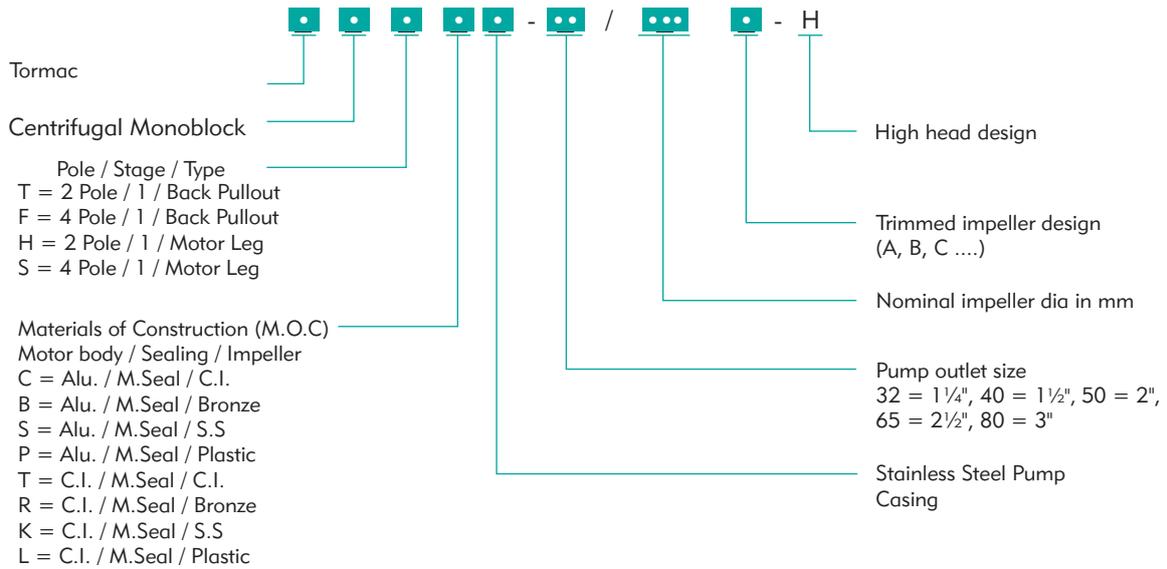
Peripheral, Jet & Centrifugal Monoblock Pumps - 50Hz

CONTENT

INDEX	Page No.
Centrifugal Monoblock Pumps - TM Series	
Model Identification Code (MIC)	4
Descriptions, Specifications, Operating Limits & MOC	5
Performance Table & Curve	6
Exploded View	7
GAD, Dimensions and Weight Data	8
Centrifugal Monoblock Pumps - TM & CT Series	
Model Identification Code (MIC)	9
Descriptions, Specifications, Operating Limits & MOC	10-11
Performance Curve & Table - TMB & TMS Series	12-13
Exploded View - TMB & TMS Series	14
GAD, Dimensions and Weight Data - TMB & TMS Series	15
Performance Curve & Table - TM & CT Series	16-18
Exploded View - ACM Series	19
GAD, Dimensions and Weight Data - TM & CT Series	20

CENTRIFUGAL MONOBLOCK PUMPS

Model Identification Code (MIC)



Sample Description:

TM-5/03M : 0.37kW, 1¼x1, 220-230V, 1 PH SINGLE PHASE PUMP 50Hz
 TM-4/03M : 0.37kW, 1x1, 220-230V, 1 PH SINGLE PHASE PUMP 50Hz
 TM-35/22M : 2.2kW, 3x3, 220-230V, 1 PH SINGLE PHASE PUMP 50Hz
 TM-20/22T : 2.2kW, 2x2, 220-230V, 3 PH SINGLE PHASE PUMP 50Hz

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CENTRIFUGAL MONOBLOCK PUMPS > TM - SERIES

TM pumps are horizontal single stage end suction centrifugal monoblock type supplied with radial flow impeller for higher head and flow requirements. These pumps are rigid in construction and compact design. TM pumps are powered by a totally enclosed fan cooled single or three phase motor suitable for continuous duty. Monoblock construction eliminates loss of energy while transmitting the energy from motor to pump. The complete pump portion is made of stainless steel for hygiene applications such as reverse osmosis and food industries.



Operating Data - Pump

Flow	to 30m ³ /h
Head	to 35.5m
Power Range	0.37 - 3kW
Speed	2850 rpm
Suction & Delivery Size	1¼" x 1", 1½" x 1" & 2" x 2"
Liquid Temperature	to 35°C
Max. Ambient Temperature	40°C
Shaft seal	Mechanical seal
Face Combination	Ceramic & Carbon
Impeller Type	Enclosed Radial Flow
Max. Working Pressure	to 3.5bar

Specifications - Motor

Power range	0.37 - 3kW
Voltage	1Ph - 220-230V, 50Hz, AC Supply 3Ph, 380-415V, 50Hz, AC Supply
Speed	2850 rpm
Insulation Class	F
Ingress Protection	IP55
Duty	S1 Continuous

Material of Construction

Part	Material (EN / DIN / SAE)
Impeller	X5CrNi 18-10 / 1.4301 / ASTM A240 AISI 304
Casing & Stuffing box	X5CrNi 18-10 / 1.4301 / ASTM A240 AISI 304
Pump Shaft	X5CrNi 18-10 / 1.4301 / ASTM A240 AISI 304
Shaft Seal	Mechanical Seal (Ceramic & Carbon)

Applications

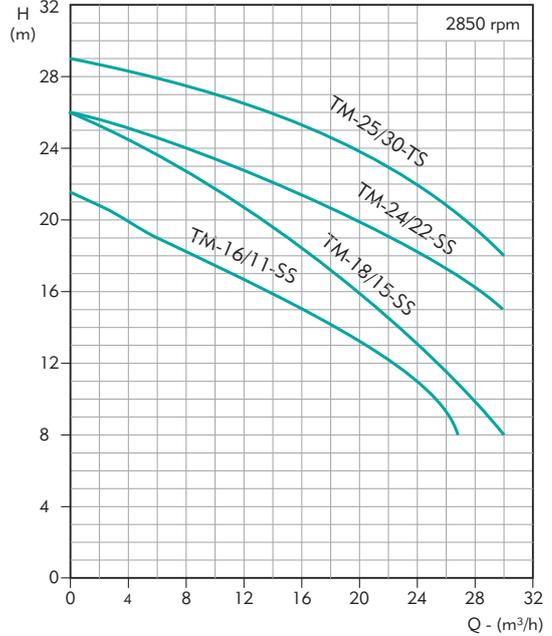
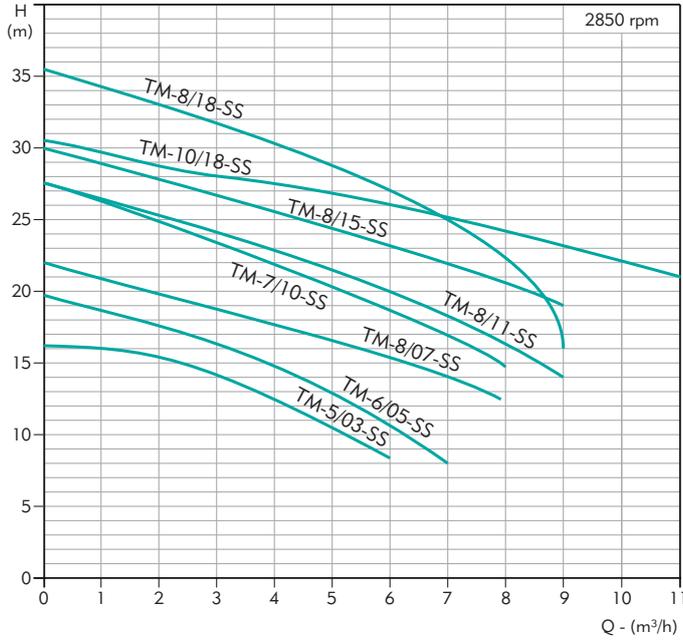
- Residences and commercial buildings
- Feed water supply in RO system
- Pressure boosting system
- Water transfer in food industries
- Washing and cleaning systems
- Utility water supply in industries
- Agriculture

Design Features

- Wetted parts are made of stainless steel
- Wide hydraulic ranges
- Thermal protection in single phase pumps
- Aluminium die cast body for better heat dissipation (Transfer).

CENTRIFUGAL MONOBLOCK PUMPS

Performance Curves



Performance Table

Pump Model		Power		Current (Amps)		Suction x Delivery Size (Inches)	Flow (Q)	Head (m)											
1 Phase 220-230V	3 Phase 380V	kW	HP	1Ph 230V	3Ph 380V			lps	0	0.28	0.56	0.83	1.1	1.38	1.67	1.94	2.2	2.5	2.78
							m³/h	0	1	2	3	4	5	6	7	8	9	10	11
TM-5/03-SS	TM-5/03-TS	0.37	0.5	2.4	1	1½x1	Head (m)	16.2	16	15.5	14	12.5	10.5	8.5					
TM-6/05-SS	TM-6/05-TS	0.55	0.75	3.8	1.4	1½x1		19.7	18.5	17.5	16.5	15	13	10.7	8				
TM-8/07-SS	TM-8/07-TS	0.75	1	5.2	1.8	1½x1		22	21	19.9	18.8	17.7	16.6	15.4	14	12.5			
TM-7/10-SS	TM-7/10-TS	1	1.34	6.2	2.4	1½x1		27.5	26.2	24.9	23.4	21.9	20.2	18.8	17	14.8			
TM-8/11-SS	TM-8/11-TS	1.1	1.5	7	2.6	1½x1		27.5	26.5	25.3	24.1	23.8	21.5	20	18.2	16.2	14		
TM-8/15-SS	TM-8/15-TS	1.5	2	9.2	3.5	1½x1		30	29	27.8	26.8	25.5	24.3	23.2	22	20.6	19		
TM-8/18-SS	TM-8/18-TS	1.85	2.5	13	4.1	1½x1		35.5	34.2	33	31.8	30.2	28.8	27	25	22.2	16		
TM-10/18-SS	TM-10/18-TS	1.85	2.5	13	4.1	1½x1		30.5	29.8	28.8	28	27.6	26.8	26	25.1	24.2	23.2	22	21

Pump Model		Power		Current (Amps)		Suction x Delivery Size (Inches)	Flow (Q)	Head (m)										
1 Phase 220-230V	3 Phase 380V	kW	HP	1Ph 230V	3Ph 380V			lps	0	0.83	1.67	2.5	3.33	4.17	5	5.83	6.67	7.5
							m³/h	0	3	6	9	12	15	18	21	24	27	30
TM-16/11-SS	TM-16/11-TS	1.1	1.5	7	2.6	2 x 2	Head (m)	21.5	20.5	19	18	17	16	14	12.5	11	8	-
TM-18/15-SS	TM-18/15-TS	1.5	2	9.2	3.5	2 x 2		26	24	23.8	22	20.8	19	17.2	15.2	13	11	8
TM-24/22-SS	TM-24/22-TS	2.2	3	14	4.9	2 x 2		26	25.4	24.3	23.7	22.8	22	20.5	19.5	18.2	16.8	15
-	TM-25/30-TS	3	4	-	6.3	2 x 2		29	28.5	28	27.2	26.5	25.5	24.5	23.5	22	20.2	18

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

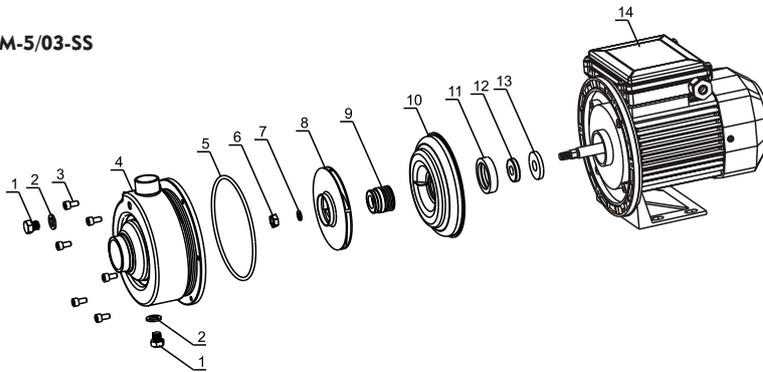
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CENTRIFUGAL MONOBLOCK PUMPS

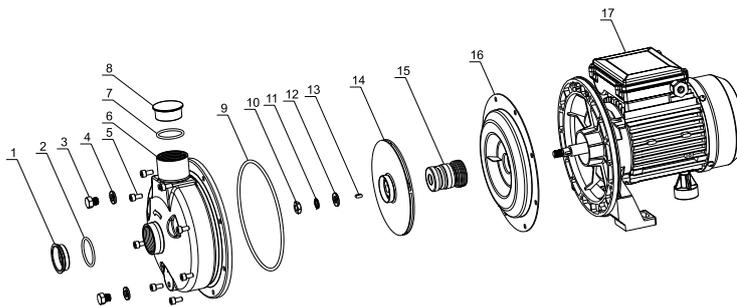
Exploded View

MODEL : TM-5/03-SS



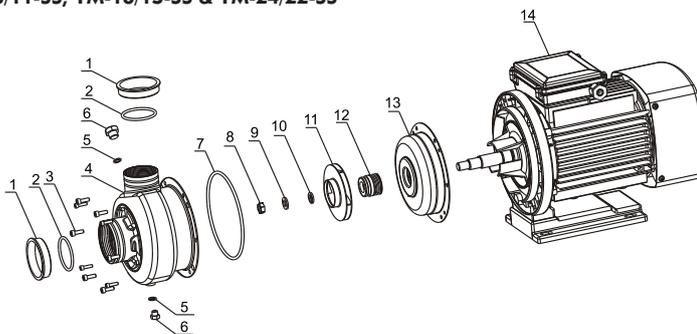
Part No.	Part Name
1	Plug
2	Washer
3	Inside Hexagonal bolt
4	Pump Housing Component
5	O-Ring
6	Hexagonal Nut
7	Spring Washer
8	Impeller
9	Mechanical Seal
10	Pump Cover
11	Flange Cover Pad
12	Shaft seal Ring
13	Oil Seal
14	Motor

MODELS : TM-6/05-SS, TM-8/07-SS, TM-7/10-SS, TM-8/11-SS, TM-8/15-SS, TM-8/18-SS & TM-10/18-SS



Part No.	Part Name
1	Dust cap
2	O-Ring
3	Plug
4	Washer
5	Inside Hexagonal bolt
6	Pump Housing Component
7	O-Ring
8	Dust Cap
9	O-Ring
10	Hexagonal Nut
11	Spring Washer
12	Washer
13	Key
14	Impeller
15	mechanical Seal
16	Pump Cover
17	Motor

MODELS : TM-8/11-SS, TM-18/15-SS & TM-24/22-SS



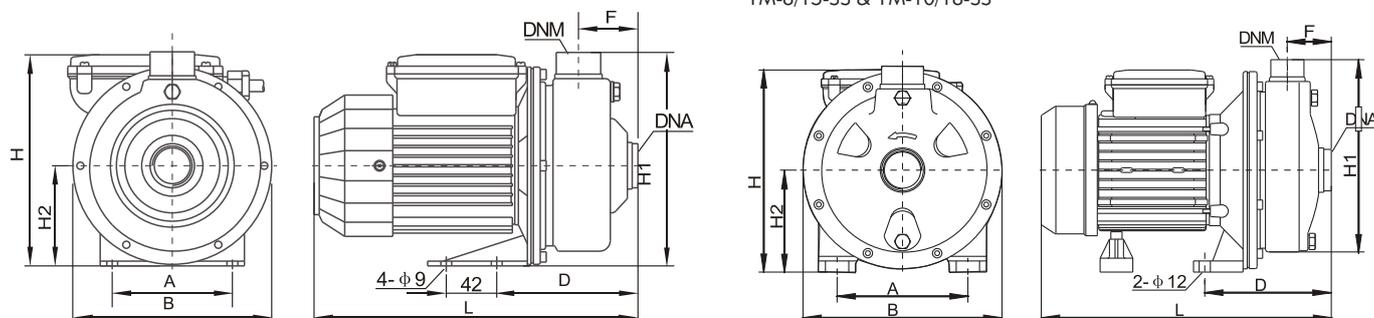
Part No.	Part Name
1	Dust Cap
2	O-Ring
3	Inside Hexagonal bolt
4	Pump Housing Component
5	O-Ring
6	Plug
7	O-Ring
8	Hexagonal Nut
9	Washer
10	Spring Washer
11	Impeller
12	Mechanical Seal
13	Pump Cover
14	Motor

CENTRIFUGAL MONOBLOCK PUMPS

General Arrangement Drawing (GAD)

MODEL : TM-5/03-SS

MODELS : TM-6/05-SS, TM-8/07-SS, TM-7/10-SS, TM-8/11-SS,
TM-8/15-SS & TM-10/18-SS

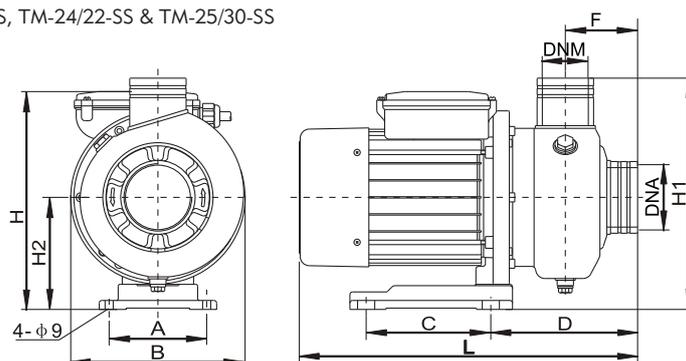


Dimensions and Weight Data

PUMP MODEL		POWER (kW)	A	B	D	F	L	H	H1	H2	DNM	DNA	NET WEIGHT (kg)
1 Phase 220-230V	3 Phase 380V												
TM-5/03-SS	TM-5/03-TS	0.37	100	166	118	50	265	177	179	84	25	32	6.3
TM-6/05-SS	TM-6/05-TS	0.55	140	213	138	49	315	218	232	110	25	32	9.4
TM-8/07-SS	TM-8/07-TS	0.75	140	213	138	49	315	218	232	110	25	32	10.34
TM-7/10-SS	TM-7/10-TS	1	140	213	138	49	315	218	232	110	25	32	11.5
TM-8/11-SS	TM-8/11-TS	1.1	140	213	138	49	337	230	232	110	25	32	15.2
TM-8/15-SS	TM-8/15-TS	1.5	140	234	140	46	373	255	240	120	25	32	19.6
TM-8/18-SS	TM-8/18-TS	1.85	140	234	140	46	373	255	240	120	25	32	22
TM-10/18-SS	TM-10/18-TS	1.85	140	213	138	49	354	255	222	110	25	40	21.8

All dimensions are in mm

MODELS : TM-16/11-SS, TM-18/15-SS, TM-24/22-SS & TM-25/30-SS



Dimensions and Weight Data

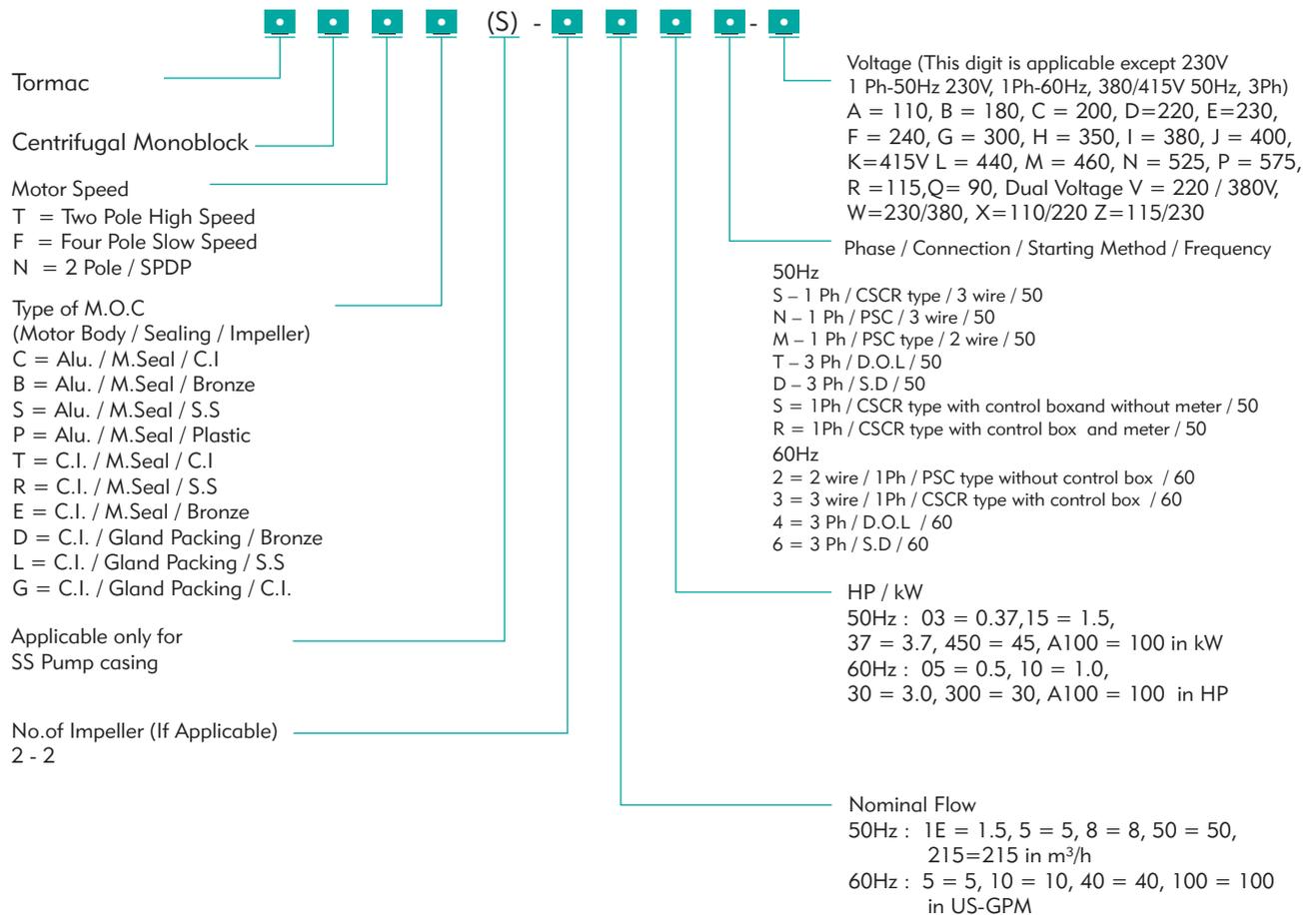
PUMP MODEL		POWER (kW)	A	B	C	D	F	L	H	H1	H2	DNM	DNA	NET WEIGHT (kg)
1 Phase 220-230V	3 Phase 380V													
TM-16/11-SS	TM-16/11-TS	1.1	108	193	138	165	82	378	243	258	125	50	50	15.8
TM-18/15-SS	TM-18/15-TS	1.5	108	193	138	165	82	378	243	258	125	50	50	17.58
TM-24/22-SS	TM-24/22-TS	2.2	108	193	138	165	82	415	242	258	125	50	50	20.2
-	TM-25/30-TS	3	108	193	138	165	82	432	242	258	125	50	50	23.3

All dimensions are in mm

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CENTRIFUGAL MONOBLOCK PUMPS

Model Identification Code (MIC)



Sample Description:
 TM-18/5-TS
 TM-7/07-TS

CENTRIFUGAL MONOBLOCK PUMPS > TM - SERIES

ACM and CT Series pumps are horizontal single stage or two stage end suction centrifugal type supplied with radial flow impeller for higher head and flow requirements. These pumps are rigid in construction and compact in design. These pumps are powered by a totally enclosed fan cooled single phase or three phase motor suitable for continuous duty. Monoblock construction eliminates loss of energy while transmitting the energy from motor to pump. The back pull out design facilitates ease of maintenance. Single phase motors are thermally protected.



Applications

- Water supply in residences and commercial buildings
- Pressure boosting system
- Feed water supply in RO system
- Utility water supply in industries
- Garden and landscaping
- Fountain & Agriculture

Design Features

- High Efficiency
- Wide hydraulic ranges
- Different impeller material options
- Back pull-out design
- Thermal protection in single phase

CENTRIFUGAL MONOBLOCK PUMPS

Operating Data - Pump

Series	CTS, CTB & CTB2	CTC & ACM
Flow	to 59m ³ /h	to 65m ³ /h
Head	to 56m	to 35m
Power Range	0.37 - 2.2kW	0.75 - 2.2kW
Speed	2850 rpm	2850 rpm
Inlet & Outlet Size	1" x 1", 1 1/4" x 1", 1 1/2" x 1 1/4" & 3" x 3"	1" x 1", 1 1/2" x 1 1/4", 2 x 1 1/2, 2 x 2, 2 1/2 x 2, 3 x 3 & 4 x 4
Liquid Temperature	to 35°C	to 35°C
Maximum Ambient Temp.	40°C	40°C
Shaft seal	Mechanical seal (Ceramic & Carbon)	Mechanical seal (Ceramic & Carbon)
Impeller Type	Radial Flow	Radial Flow
Maximum Working Pressure	to 5.6bar	to 3.5bar

Motor Specifications

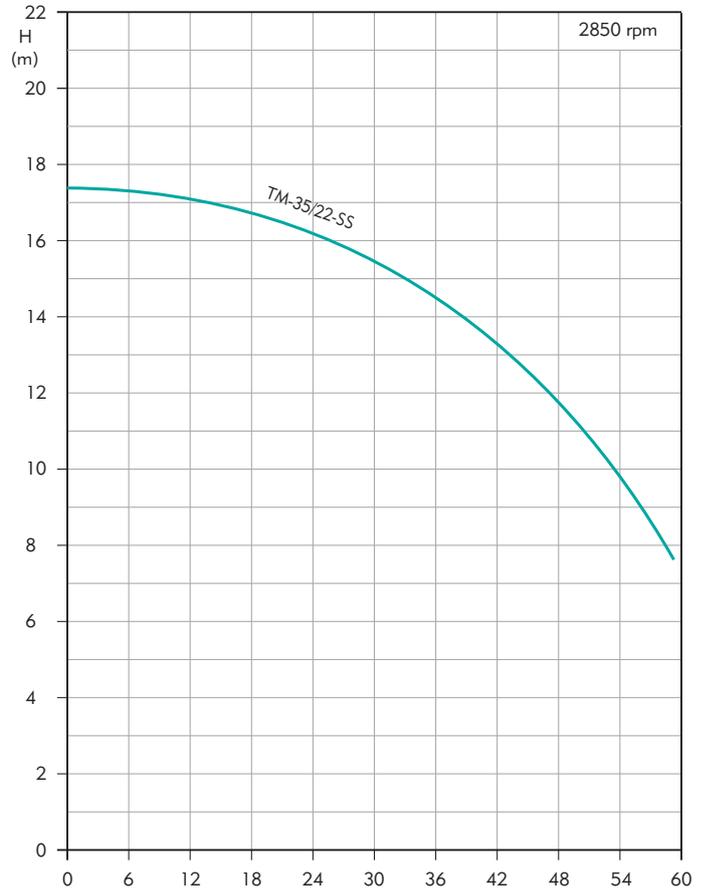
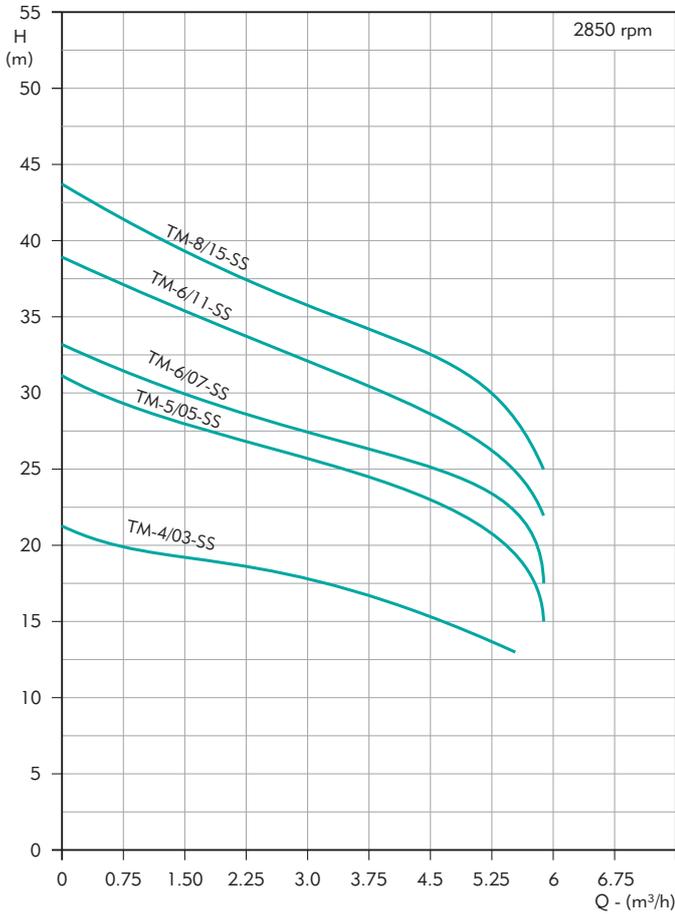
Series	TM	TM
Power Range	0.37 - 2.2 kW	0.75 - 2.2 kW
Voltage	Single Phase, 220-230V, 50Hz, AC Supply Three Phase, 380-415V, 50Hz, AC Supply	Single Phase, 220-230V, 50Hz, AC Supply Three Phase, 380-415V, 50Hz, AC Supply
Speed	2850 rpm	2850 rpm
Insulation Class	F	B & F
Ingress Protection	IP55	IP44 & IP54
Duty	S1 Continuous	S1 Continuous

Material of Construction

Part	CTS (EN / DIN / SAE)	CTB / CTB2 (EN / DIN / SAE)	CTC / ACM (EN / DIN / SAE)
Motor Frame	Aluminium/ADC-12/ASTM A383 ADC-12	Aluminium / ADC-12 / ASTM A383 ADC-12	Aluminium / ADC-12 / ASTM A383 ADC-12 / Cast Iron / EN-GJL-220/GG20/ ASTM A48 CLASSES
Impeller	X5CrNi18-10/1.4301/ASTM A240 AISI 304	CuSn10 /CC480K	EN-GJL-220/GG20/ASTM A48 Class 30 B
Casing	EN-GJL-220 / GG20 / ASTM A48 Class 30 B	EN-GJL-220 / GG20 / ASTM A48 Class 30 B	EN-GJL-220 / GG20 / ASTM A48 Class 30 B
Pump Shaft	X12Cr13 / 1.4006 / ASTM A276 AISI 410	X12Cr13 / 1.4006 / ASTM A276 AISI 410	X12Cr13 / 1.4006 / ASTM A276 AISI 410
Shaft Seal	Mechanical Seal (Ceramic & Carbon)	Mechanical Seal (Ceramic & Carbon)	Mechanical Seal (Ceramic & Carbon)

CENTRIFUGAL MONOBLOCK PUMPS

Performance Curves



Performance Table

Pump Model		Power		Current (Amps)		Suction x Delivery (Inches)	Flow (Q)	Head (m)										
1Ph 220-230V	3Ph 380V	kW	HP	1Ph 220-230V	3Ph 380V			0	0.2	0.3	0.5	0.7	0.8	1	1.2	1.3	1.5	1.6
TM-4/03-SS	TM-4/03-TS	0.37	0.5	3.1	1.6	1 x 1	Head (m)	21.4	20	19.2	18.9	18.3	17.8	17	15.5	14.6	13	
TM-5/05-SS	TM-5/05-TS	0.55	0.75	5.5	2	1 x 1		31.2	29.6	28.5	27	25.6	25.2	24.8	24	22.7	20	15
TM-6/07-SS	TM-6/07-TS	0.75	1.0	5.7	2.5	1 x 1		33	32	31	28	27.3	27	26.7	25.5	25	22	17.5
TM-6/11-SS	TM-6/11-TS	1.1	1.5	8.6	2.65	1 x 1		38.5	37.5	36.5	34.5	32.5	31.8	30	29	27.8	25	22
TM-8/15-SS	TM-8/15-TS	1.5	2.0	10.5	3.51	1 x 1		43.5	42.5	41	38	36.5	35.2	34	33	32	28	25

Pump Model		Power		Current (Amps)		Suction x Delivery (Inches)	Flow (Q)	Head (m)										
1Ph 220-230V	3Ph 380V	kW	HP	1Ph 220-230V	3Ph 380V			0	1.6	3.3	5	6.6	8.3	10	11.6	13.3	15	16.6
TM-35/22-SS	TM-35/22-TS	2.2	3.0	13.3	3.0	3 x 3	Head (m)	17.4	17.3	17.1	16.8	16.4	15.5	14.5	13.2	11.8	9.8	7.7

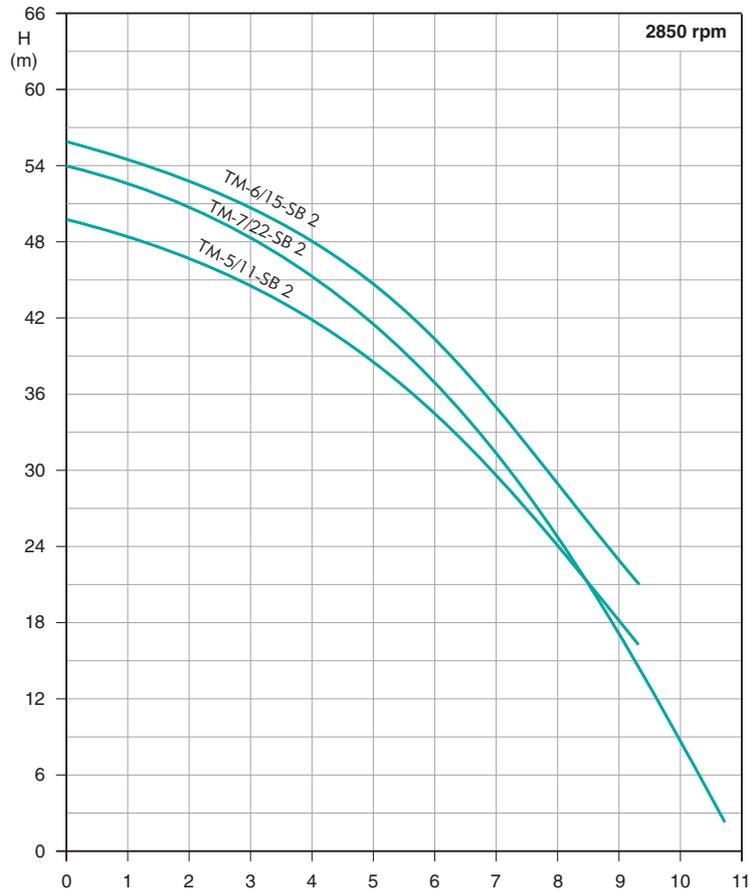
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CENTRIFUGAL MONOBLOCK PUMPS

Performance Curves



Performance Table

Pump Model		Power		Current (Amps)		Suction x Delivery (Inches)	Flow (Q)	Head (m)								
1Ph 220-230V	3Ph 380V	kW	HP	1Ph 220-230V	3Ph 380V			0	0.3	0.6	1	1.3	1.6	2	2.3	2.6
TM-5/11-SB 2	CTB2-5/11T	1.1	1.5	8.9	2.65	1¼ x 1	50	47	46	43	39.5	35	28	22	16	
TM-6/15-SB 2	CTB2-6/15T	1.5	2	11	4.2	1¼ x 1	56	54.5	52	50	46	40	33	26	21	
TM-7/22-SB 2	CTB2-7/22T	2.2	3	13.3	5.2	1½x1¼	54	52.5	51.5	47.5	43	37	27.5	18.5	10	2.5

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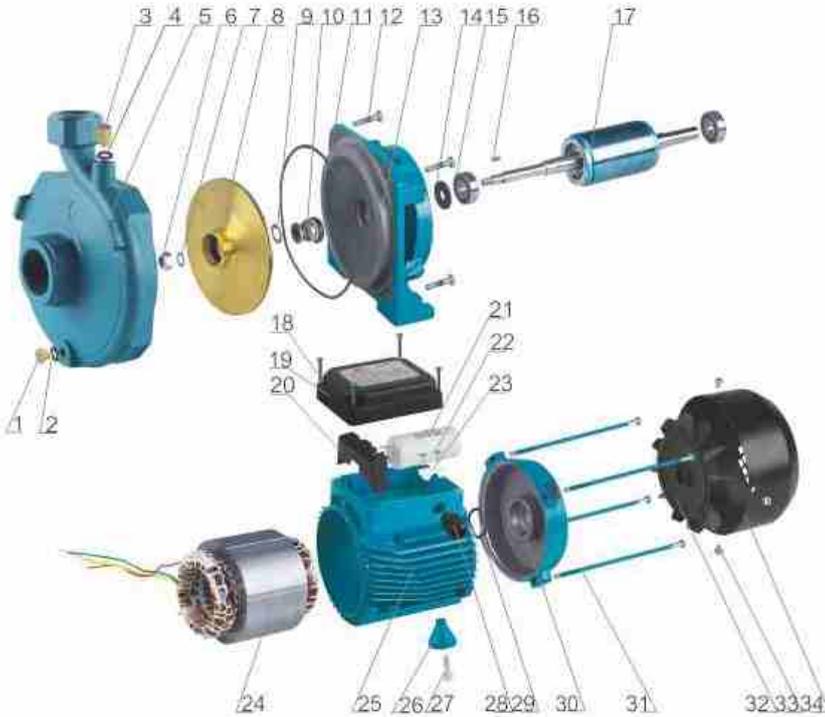
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CENTRIFUGAL MONOBLOCK PUMPS

Exploded View

TM SERIES



Part No.	Part Name
1	Drain Plug
2	"O" Ring for Drain Plug
3	Filling Plug
4	"O" Ring for Filling Plug
5	Pump Body
6	Impeller stop Nut
7	Plain Washer
8	Impeller
9	Plain Washer
10	Mechanical Seal
11	"O" Ring for Pump Body
12	Motor Bracket-Pump Body Screw
13	Motor Bracket
14	Splash Guard
15	Ball Bearing
16	Key
17	Shaft and Rotor
18	Screw for Terminal Cover
19	Terminal Cover
20	Terminal Board
21	Capacitor
22	Screw for Cable Presser
23	Cable Presser
24	Stator with Winding
25	Motor case
26	Foot
27	Screw for foot
28	Cable Gland
29	Adjusting Ring
30	Motor End Cover
31	Motor Tie-Rod
32	Fan
33	Screw for Fan Cover
34	Fan Cover

TM SERIES

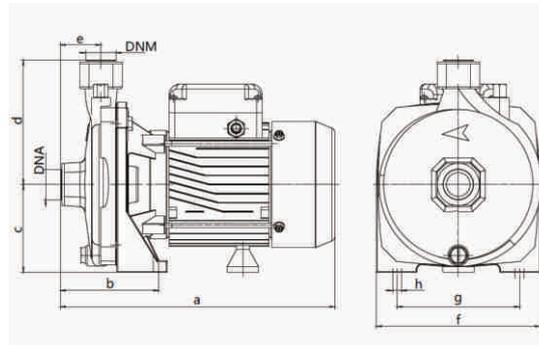


Part No.	Part Name
1	Screw for Pump Body
2	Drain Plug
3	"O" Ring for Drain Plug
4	"O" Ring for Pump Body Screw
5	Filling Plug 1 Top
6	Filling Plug 1 Base
7	"O" Ring for Filling Plug
8	Pump Body
9	Nut for Impeller/Impeller stop Nut
10	Plain Washer
11	Impeller
12	Holding Disc
13	Impeller
14	Mechanical Seal Moving Part
15	Mechanical Seal Static Part
16	Pump Cover Gasket
17	Filling Plug 2
18	"O" Ring for Filling Plug
19	Front Cover
20	Splash Guard
21	Screw for Terminal Cover
22	Terminal Cover
23	Terminal Board
24	Capacitor
25	Screw for cable Presser
26	Cable Presser
27	Ball Bearing
28	Key
29	Shaft and Rotor
30	Stator with Winding
31	Motor Housing
32	Foot
33	Screw for Foot
34	Cable Gland
35	Adjusting Ring
36	Motor End Cover
37	Motor Tie-Rod
38	Fan
39	Screw for Fan Cover
40	Fan Cover

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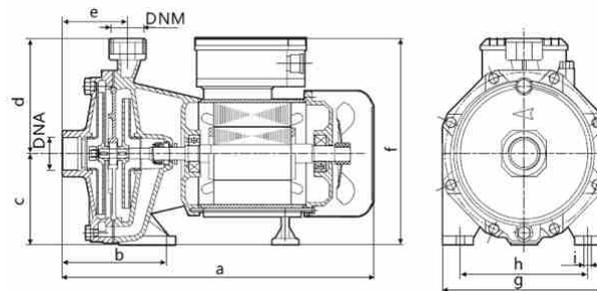
CENTRIFUGAL MONOBLOCK PUMPS

General Arrangement Drawing (GAD), Dimensions & Weight Data



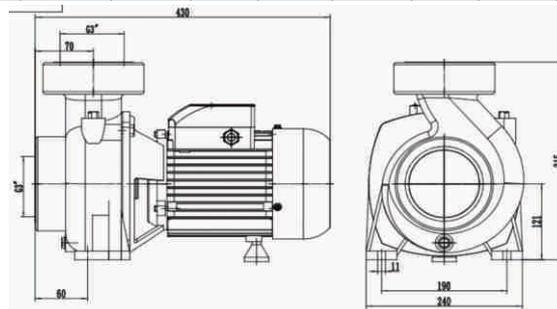
Pump Model		Power (kW)	Dimensions (mm)								Net Weight (kg)
1Ph 220-230V	3Ph 380V		DNA	DNM	a	b	c	d	g	F	
TM-4/03-SS	TM-4/03-TS	0.37	1"	1"	287	100	84	114	113	150	9
TM-5/05-SS	TM-5/05-TS	0.55	1"	1"	310	110	97	134	138	186	14
TM-6/07-SS	TM-6/07-TS	0.75	1"	1"	310	110	97	134	138	186	14.8
TM-6/11-SB	TM-6/11-TB	1.1	1"	1"	365	116	115	168	181	220	21.6
TM-8/15-SB	TM-8/15-TB	1.5	1"	1"	365	116	115	168	181	220	23

All dimensions are in mm unless otherwise specified



Pump Model		Power (kW)	Dimensions (mm)											Net Weight (kg)
1Ph 220-230V	3Ph 380V		DNA	DNM	a	b	c	d	e	f	g	h	i	
TM-5/11SB 2	TM-5/11TB 2	1.1	1 1/4"	1"	400	140	115	148	86	256	210	165	10	21.5
TM-6/15SB 2	TM-6/15TB 2	1.5	1 1/4"	1"	400	140	115	148	86	256	210	165	10	22.5
TM-7/22SB 2	TM-7/22TB 2	2.2	1 1/2"	1 1/4"	450	160	140	175	90	320	240	200	14	26.3

All dimensions are in mm unless otherwise specified



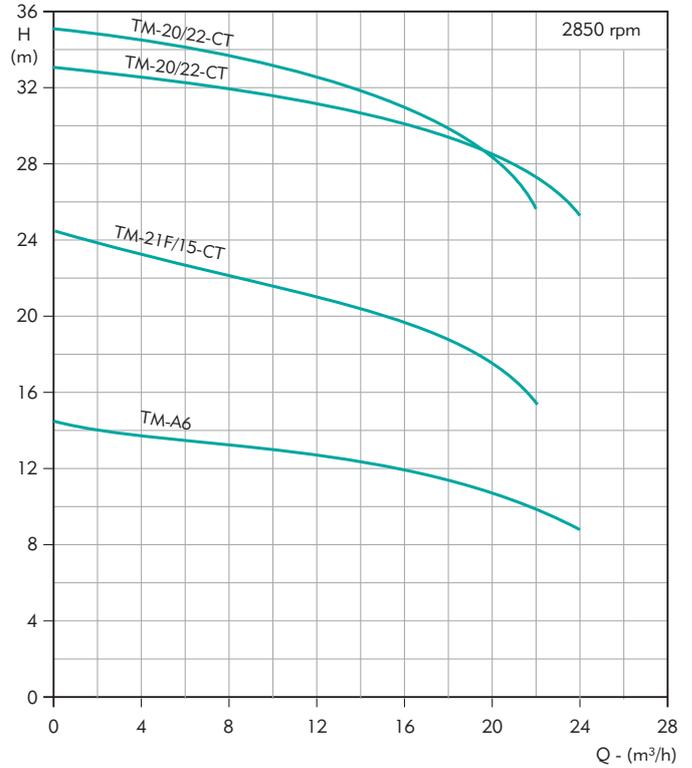
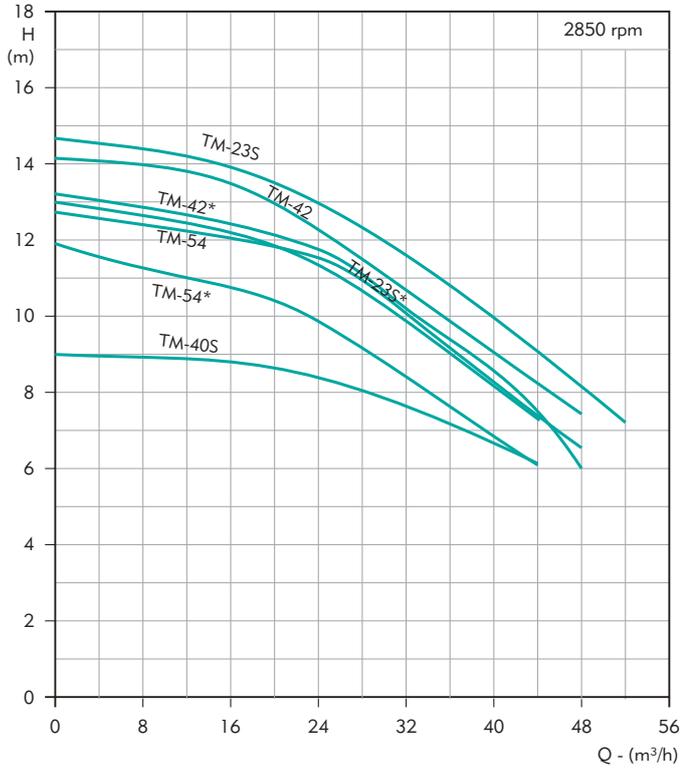
Pump Model		Power (kW)	Dimensions (mm)											Net Weight (kg)
1Ph 220-230V	3Ph 380V		DNA	DNM	a	b	c	d	e	f	g	h	i	
TM-35/22-SB	TM-35/22-TB	2.2	3"	3"	430	60	121	315	70	190	240	-	-	29

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CENTRIFUGAL MONOBLOCK PUMPS

Performance Curves



Performance Table

Pump Model	Power		Current (Amps)		Suction x Delivery (Inches)	Flow (Q)	Head (m)																
	kW	HP	1Ph 220-230V	3Ph 380-415V			0	1.1	2.2	3.3	4.4	5.6	6.7	7.8	8.9	10	11.1	12.2	13.3	14.4			
TM-23S	1.5	2	10	-	3 x 3	0	4	8	12	16	20	24	28	32	36	40	44	48	52				
TM-42	1.1	1.5	9	-	3 x 3	0	4	8	12	16	20	24	28	32	36	40	44	48	52				
TM-54	1.1	1.5	9	-	3 x 3	0	4	8	12	16	20	24	28	32	36	40	44	48	52				
TM-40S	1.1	1.5	8	-	3 x 3	0	4	8	12	16	20	24	28	32	36	40	44	48	52				
TM-23S*	1.5	2	10	-	3 x 3	0	4	8	12	16	20	24	28	32	36	40	44	48	52				
TM-42*	1.1	1.5	9	-	3 x 3	0	4	8	12	16	20	24	28	32	36	40	44	48	52				
TM-54*	1.1	1.5	9	-	3 x 3	0	4	8	12	16	20	24	28	32	36	40	44	48	52				

Pump Model	Power		Current (Amps)		Suction x Delivery (Inches)	Flow (Q)	Head (m)																
	kW	HP	1Ph 220-230V	3Ph 380-415V			0	0.6	1.1	1.7	2.2	2.8	3.3	3.9	4.4	5	5.6	6.1	6.7				
TM-20/22-CT	2.2	3	-	5.2	2 x 2	0	2	4	6	8	10	12	14	16	18	20	22	24					
TM-20/22-CT	2.2	3	18	-	2 x 2	0	2	4	6	8	10	12	14	16	18	20	22	24					
TM-21F/15-CT	1.5	2	12.5	-	2 x 2	0	2	4	6	8	10	12	14	16	18	20	22	24					
TM-A6	0.75	1	6.5	-	2 x 2	0	2	4	6	8	10	12	14	16	18	20	22	24					

* Pump with reduced impeller diameter (OD) only for Bangladesh.

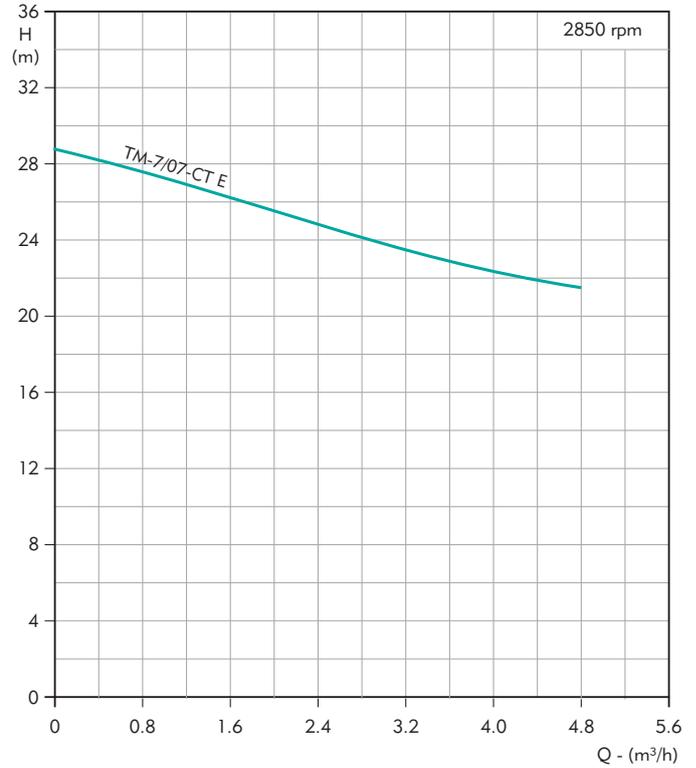
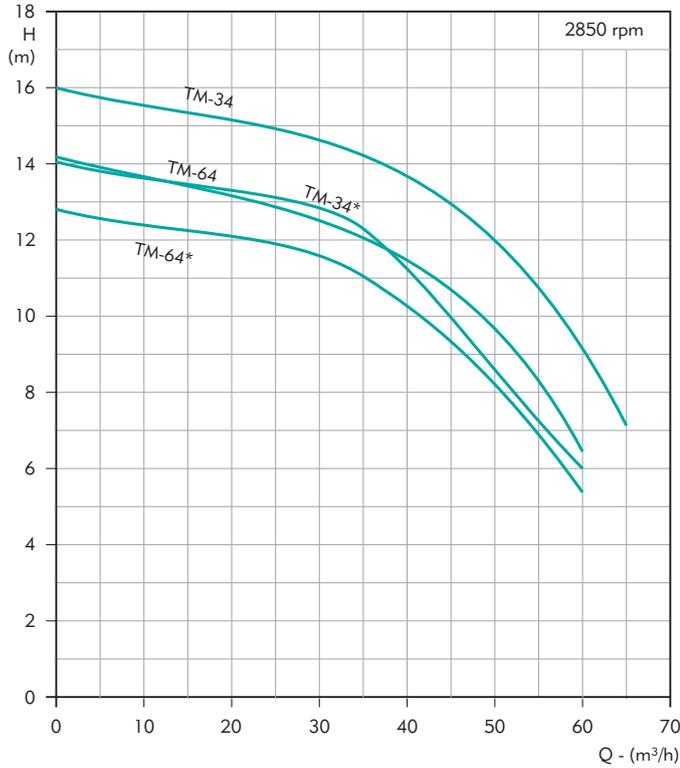
Performance curve tolerances are as per HI : 14.6 / ISO: 9906, Grade 3B

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CENTRIFUGAL MONOBLOCK PUMPS

Performance Curves



Performance Table

Pump Model	Power		Current (Amps)		Suction x Delivery (Inches)	Flow (Q)	Head (m)																		
	kW	HP	1Ph 220-230V	3Ph 380-415V			lps	0	1.4	2.8	4.2	5.6	6.9	8.3	9.7	11.1	12.5	13.9	15.3	16.7	18.1				
TM-34	1.5	2	18	-	4 x 4	Head (m)	16	15.8	15.6	15.4	15.2	14.9	14.6	14.2	13.8	13	12	10.7	9.0	7.1					
TM-64	2.2	3	18	-	4 x 4	Head (m)	14.2	14	13.7	13.5	13.2	12.8	12.5	12	11.4	10.6	9.7	8.2	6.3						
TM-34*	2.2	3	18	-	4 x 4	Head (m)	14.06	13.8	13.7	13.5	13.3	13	12.8	12.2	11.2	10	8.3	7	6						
TM-64*	2.2	3	18	-	4 x 4	Head (m)	12.82	12.5	12.4	12.3	12.2	12.1	11.7	11.5	10.2	9.2	8.2	6.4	5.2						

Pump Model	Power		Current (Amps)		Suction x Delivery (Inches)	Flow (Q)	Head (m)																		
	kW	HP	1Ph 220-230V	3Ph 380-415V			lps	0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3					
TM-7/07-CTE	0.75	1	5	-	1 x 1	Head (m)	28.7	28.1	27.5	26.8	26.2	25.5	24.9	24.3	23.6	23	22.2	21.3	19.7						

* Pump with reduced impeller diameter (OD) only for Bangladesh.

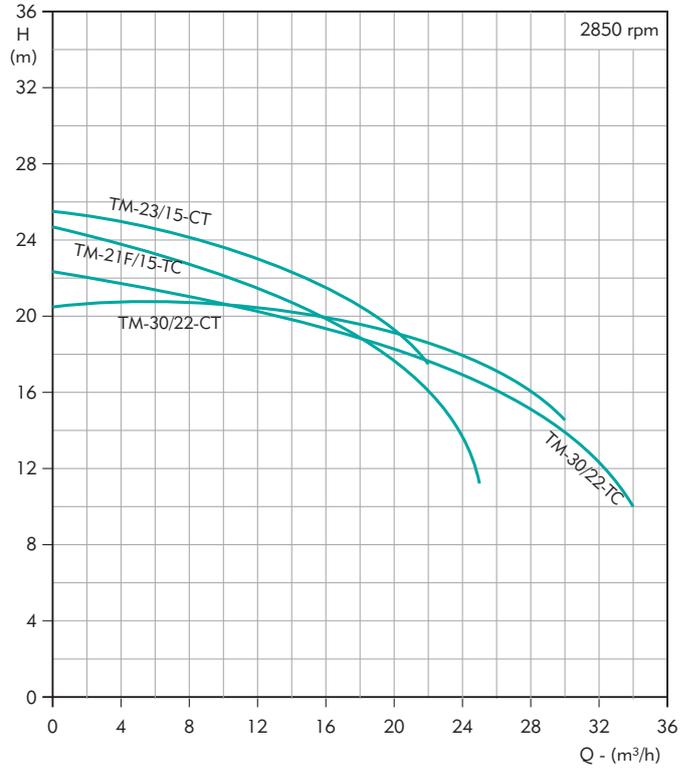
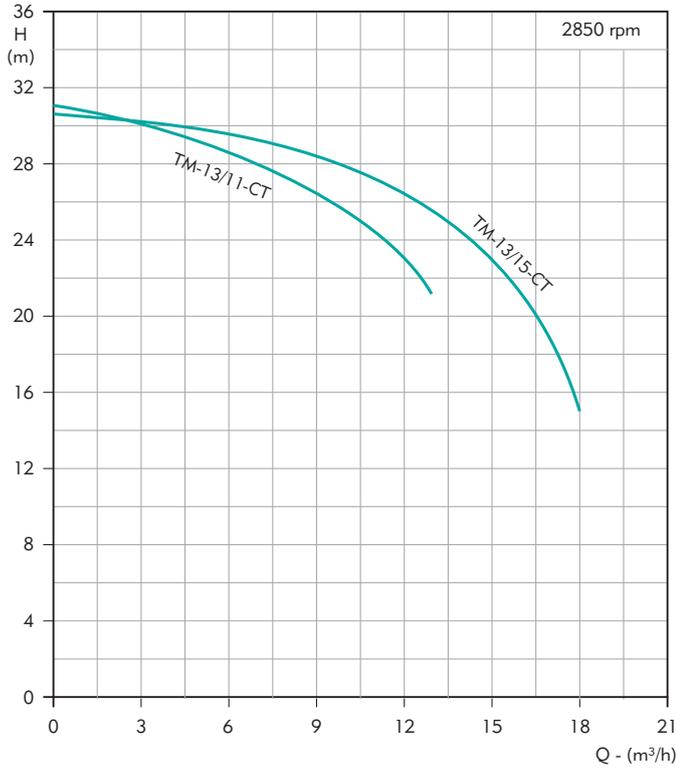
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CENTRIFUGAL MONOBLOCK PUMPS

Performance Curves



Performance Table

Pump Model	Power		Current (Amps)		Suction x Delivery (Inches)	Flow (Q)	Head (m)									
	kW	HP	1Ph 220-230V	3Ph 380-415V			lps	0	0.6	1.1	1.7	2.2	2.8	3.3	3.9	4.4
TM-13/11-CT	1.1	1.5	10	3	1½x1¼	m³/h	0	2	4	6	8	10	12	14	16	18
TM-13/15-CT	1.5	2	12.5	4	2x1½	Head (m)	31	30.3	29.6	28.8	27.6	25.8	23.4	21.3 (13m³/h)	-	-
TM-30/22-CT	2.2	3	12.5	-	2½x2	Head (m)	30.8	30.4	30	29.5	28.8	27.9	26.5	24.4	21.6	15.1

Pump Model	Power		Current (Amps)		Suction x Delivery (Inches)	Flow (Q)	Head (m)												
	kW	HP	1Ph 220-230V	3Ph 380-415V			lps	0	0.6	1.1	1.7	2.2	2.8	3.3	3.9	5	6.1	7.2	8.3
TM-21F/15-TC	1.5	2	-	4	2 x 1½	m³/h	0	2	4	6	8	10	12	14	18	22	26	30	34
TM-23/15-CT	1.5	2	12.5	4	2 x 1½	Head (m)	24.3	24	23.7	23.3	22.8	22.3	21.7	21	19	16.1	11.2 (23m³/h)	-	-
TM-30/22-CT	2.2	3	12.5	-	2½ x 2	Head (m)	25.5	25.2	24.9	24.5	24.1	23.6	23.0	22.4	20.5	17.7	-	-	
TM-30/22-TC	2.2	3	-	5	2½ x 2	Head (m)	20.2	20.3	20.4	20.4	20.4	20.3	20.2	20.1	19.5	18.4	16.6	14.2	-
TM-30/22-TC	2.2	3	-	5	2½ x 2	Head (m)	22.2	21.9	21.6	21.4	21.1	20.8	20.5	20.1	19	17.7	15.9	13.7	10

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

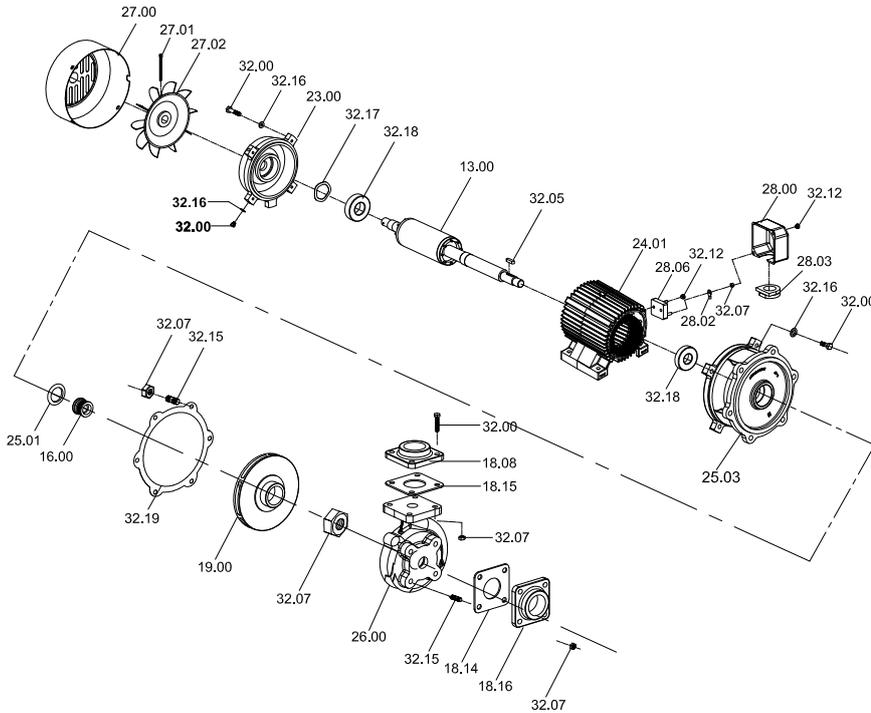
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CENTRIFUGAL MONOBLOCK PUMPS

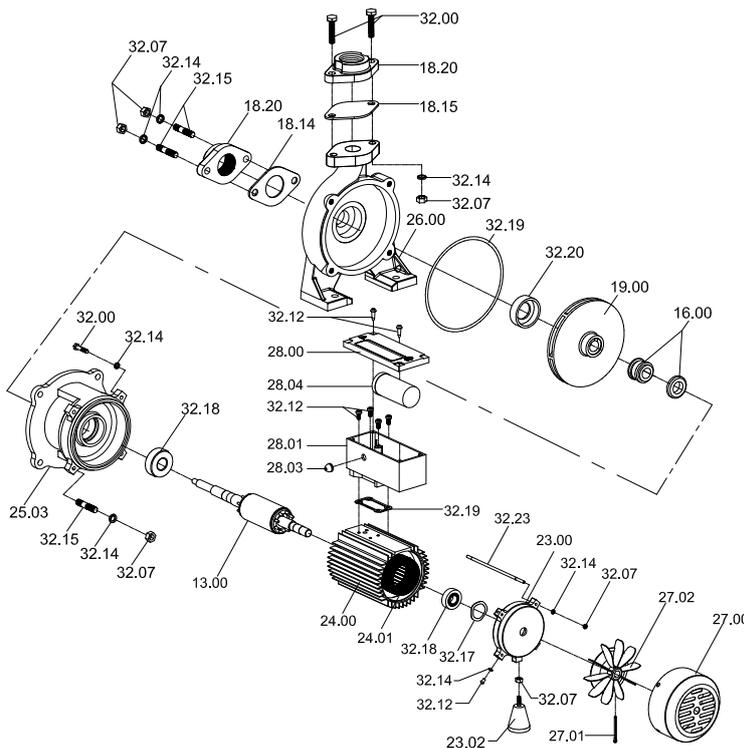
Exploded View

ACM Series - Cast Iron Frame



Part No.	Part Name
13.00	Rotor
16.00	Mechanical Seal
18.08	Delivery Flange
18.14	Suction Flange Rubber Washer
18.15	Delivery Flange Rubber Washer
18.16	Suction Flange
19.00	Impeller
23.00	Rear Cover
24.01	Wound Stator
25.01	Water Cutting Ring
25.03	Bracket
26.00	Unicasing
27.00	Cooling Fan Cover
27.01	Cooling Fan Split Pin
27.02	Cooling Fan
28.00	Terminal Box
28.02	Copper Lugs (Terminal End)
28.03	Wiring Gland
28.06	Terminal Board
32.00	Bolt
32.05	Key
32.07	Nut
32.12	Screw
32.15	Stud
32.16	Washer
32.17	Wave Washer
32.18	Bearing
32.19	Gasket

ACM Series - Aluminium Frame

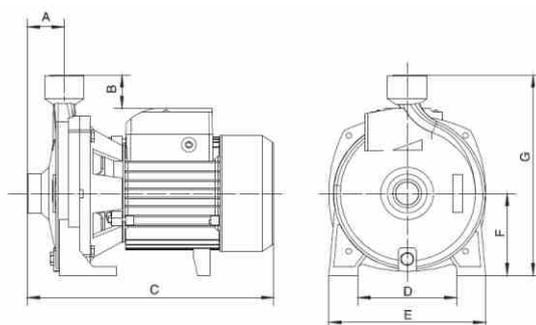


Part No.	Part Name
13.00	Rotor
14.02	Cable Grommet Lock Plate
16.00	Mechanical Seal
18.14	Suction Flange Rubber Washer
18.15	Delivery Flange Rubber Washer
18.20	Suction Cum Delivery Flange
19.00	Impeller
23.00	Rear Cover
24.00	Motor Frame
24.01	Wound Stator
25.03	Bracket
26.00	Unicasing
27.00	Cooling Fan Cover
27.01	Cooling Fan Split Pin
27.02	Cooling Fan
28.00	Terminal Box Top
28.01	Terminal Box Bottom
28.03	Wiring Gland
28.04	Capacitor
32.00	Bolt
32.05	Key
32.07	Nut
32.09	O-Ring
32.11	Plug
32.12	Screw
32.14	Spring Washer
32.15	Stud
32.16	Washer
32.17	Wave Washer
32.18	Bearing
32.19	Gasket
32.20	Base Collar
32.23	Tie Rod

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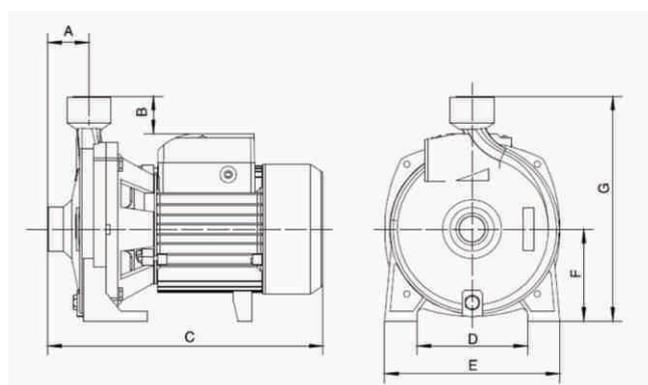
CENTRIFUGAL MONOBLOCK PUMPS

General Arrangement Drawing (GAD), Dimensions & Weight Data



Pump Model	Power (kW)	Dimensions (mm)					
		A	C	D	E	F	G
TM-20/22-CT	2.2	67	464	176	232	121	299
TM-20/22-TC	2.2	67	464	176	232	121	299
TM-21F/15-CT	1.5	70	430	104	200	108	270
TM-30/22-CT	2.2	75	440	104	200	108	280
TM-30/22-TC	2.2	75	440	104	200	108	280

All dimensions are in mm unless otherwise specified



Pump Model	Power (kW)	Dimensions (mm)							Net Weight (kg)
		A	B	C	D	E	F	G	
TM-13/15-CT	1.5	65	30	450.5	127.6	229.5	120	300	-
TM-42	1.1	68	75	463	153	254	123	336	43
TM-A6	0.75	77	-	399	93.5	161	94.5	263.5	26
TM-7/07-CT	0.75	144	20.5	364	85.5	186.5	100.4	244	18.3
TM-54	1.1	80.5	84	438	152	254	126.5	336	31.2
TM-64	2.2	77.5	-	460	152	255.5	137.5	324	35

All dimensions are in mm unless otherwise specified



T H E P O W E R B E H I N D T H E F O R C E

Naargo Industries Private Limited, one of the leading manufacturers of latest state of art, large range of pumps and motors, is managed by veterans who are in the pump industry for almost half a century. The products are employed in various applications like irrigation, domestic, civil construction, de-watering etc; The Company has a strong distribution network in India for sales & service and a strong global presence.

Quality is the key factor in Naargo's products. The expansive infrastructure and environment accredited with ISO 9001 quality certification, latest engineering softwares, high-tech machinery, futuristic pumping technology and high caliber workforce facilitate the production of flawless and efficient products on par with international standards under the brand name of "Tormac". The well equipped R & D wing stays alive to the changing global trends and comes out with viable solutions for innovative product development and upgradation.

The Products currently available include Stainless Steel Submersible Pumps, 4" Thermoplastic Submersible Pumps, 6" & 8" Cast Iron Submersible Pumps, Submersible Motors, Submersible cables, uPVC pipes, and control panels, Centrifugal Pumps, Inline Booster Pumps, Jet Self-priming Pumps Sewage pumps, Induction Pumps and Peripheral Pumps.

The power, performance and endurance of the products backed by the uncompromising teamwork and value systems will certainly propel the company's growth towards new horizons in the pump industry.

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