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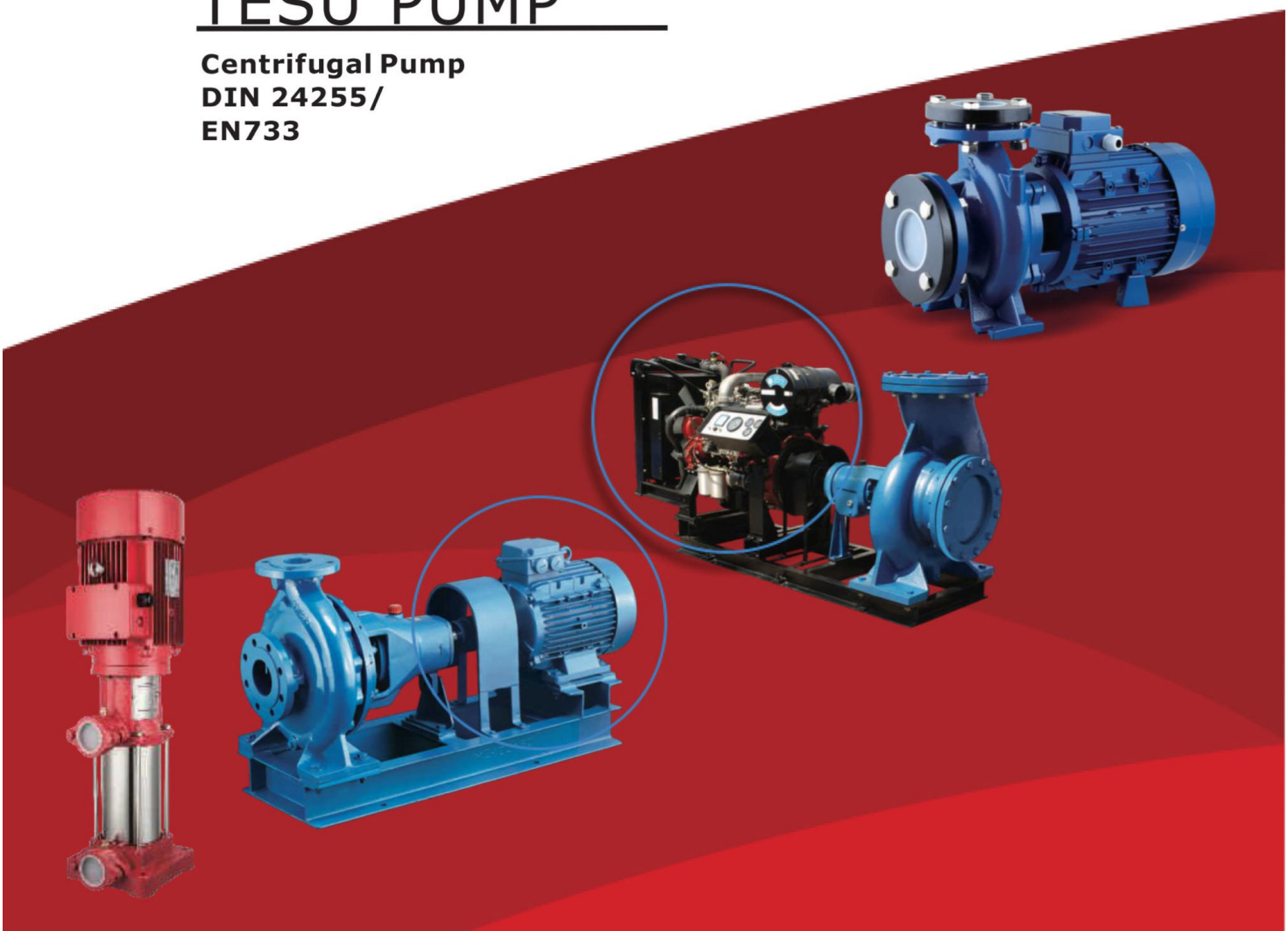
TESU® PUMPS

QUALITY ISO 9001:2008 CERTIFICATION

TESU PUMP

Centrifugal Pump
DIN 24255/
EN733



Construction Features

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Drain Plug
Brass
Anti-corrosion, rust-prevention, rigidity material to seal and prevent leakage

Inlet
Cast iron
ISO7005.2 PN16 connector for common model, special request is acceptable

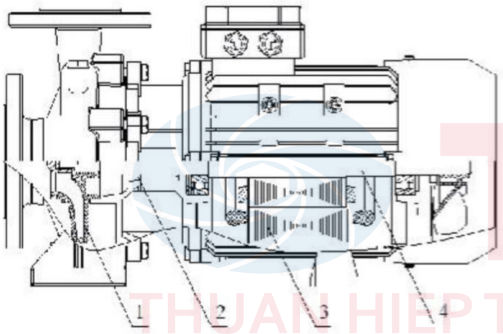
Fan cover
Steel
Good heat dissipation

Motor Casing
Aluminum
excellent and rigidity material for fast cooling, more solid

Pump body
Cast Iron
Professional design in hydraulic passageway brings higher efficiency and stability

Bracket
Cast Iron
Rational function layout, excellent physical design

Foot
Cast iron
Double side foot, more stable



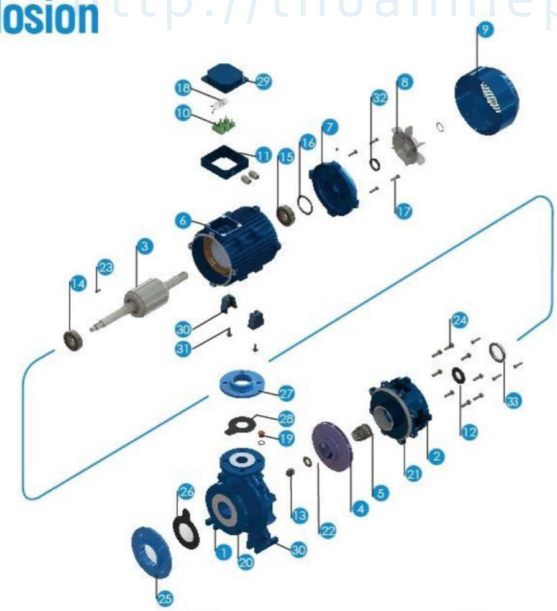
1 Impeller
Triarchic theory and excellent fluid design feature in power-saving, high efficiency,low pulse and noise

2 Mechanical Seal
Suitable for frequent start without external cooling and maintenance, various materials for different working conditions

3 Motor
High-efficiency, power-saving and low noise, with protection level F and hermetically-sealed construction to prevent spatter, water and dust

4 Shaft
AISI1045(On request:AISI420/AISI304)

Explosion



NO.	Description
1	Pump body
2	Motor bracket
3	Shaft and rotor 3 phase
4	Cast iron impeller / Bronz impeller
5	Mechanical sea
6	Motor case and winding 3 phase
7	Motor cover
8	Fan
9	Fan cover
10	Terminal box 3 phase / terminal box 1 phase

NO.	Description	NO.	Description	NO.	Description	NO.	Description
11	Terminal box cover	17	Motor rod	23	Key	29	capacitor holding box
12	Splash guard	18	capacitor	24	Motor bracket-pump body screw	30	Metal foot
13	Impeller stop nut	19	Filling plug	25	Suction pipe flange	31	Lockinpin (screw)
14	Pump side ball bearing	20	Drain plug	26	Suction pipe gasket	32	V-Ring
15	Fan side ball bearing	21	Pump body O-R gasket	27	Delivery pipe flange	33	Ring seal
16	Adjusting ring	22	Mechanical seal spacer	28	Delivery pipe gasket		

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Application

Cooling water
Irrigation
Fire-fighting systems
Water supply
Water distribution

Pump Specifications

Discharge flange diameter: DN32 – DN80 mm
Capacity Q range: 4.5m3/h - 240m3/h (50HZ)
Head H range: 10m – 92.5m
Operating speed: 2900RPM (50Hz)

Construction Features

Main dimensions: Apply to EN733 (DIN24255) standard and back pull out type
Casing structure: End suction, center radial discharge
Flange pressure rate: ISO7005.2 PN1.6MPa
Shaft seal: Single mechanical seal (Graphite / Silicon carbide / Ceramic / NBR / FPM / SS304 / SS316) According to Standard EN 12756
Driven shaft: Pump and motor flanged together to form a close-coupled unit, with common shaft.

On request:

Other operating voltages and frequencies
Special mechanical seal; special liquids
Special temperature

Operation Conditions

Working Temperature Range: -10℃ ~ +90℃
Max. Allowable Working Pressure (MAWP): 10bar
Hydrostatic Test Pressure = 1.3 times the maximum discharge pressure, but not exceed 13 bar)

Motor Specifications

Totally Enclosed Fan Cooled asynchronous induction motor

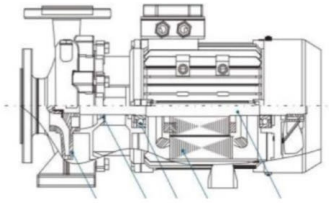
Winding:

3 Phase	2 – 4HP 5.5 – 50HP	220-240VD / 380-420VY - 50HZ 380-420VD / 660-725VY - 50HZ
1 Phase	2 – 5.5HP	

Degree of motor protection: IP55 (IEC60034-5)
Insulation Class: F
Duty: S1 continuous duty operation
Altitude shall not exceed 1000m above seal-level (IEC60034-1)
Allowed air temperature between -20℃ and 40℃ (IEC60034-1)

On request:

Motor winding is protected with 3 PTC thermistors for tripping



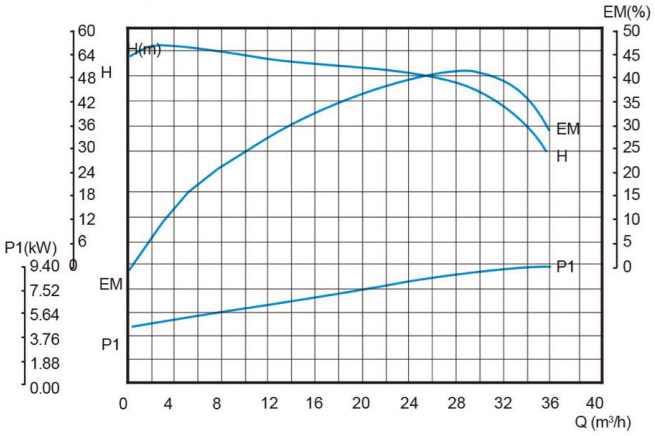
Color can be changed

Materials Specifications for Pump Main Parts:

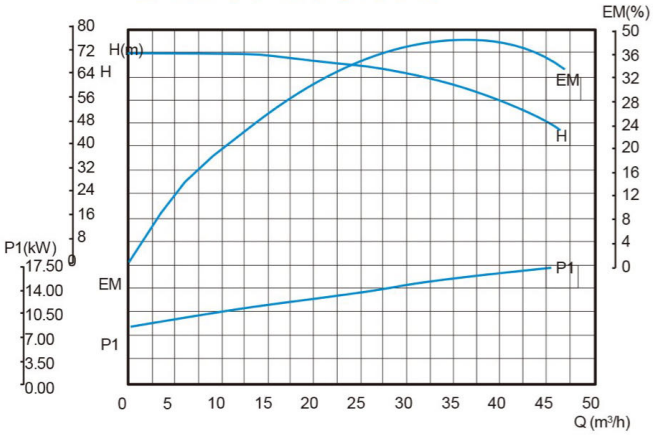
Part Description	Materials Class	USA AISI, ASTM	Germany DIN	Japan JIS
Casing	Cast iron	Class 25B	GG-20	FC200
	Austenitic Stainless steel	CF-8, SS30	DIN 1.4308	SUS304
		CF-8M, SS316	DIN 1.4408	SUS316
Impeller	Cast iron	Class 25B	GG-20	FC200
	Austenitic Stainless steel	CF-8, SS304	DIN 1.4308	SUS304
		CF-8M, SS316	DIN 1.4408	SUS316
	Bronze	C83600	G-CuSn5ZnPb	BC6
Shaft	Carbon steel	1045	C45	C45
	Martensite Stainless steel	AISI420	DIN1.4021	DIN1.4021
	Austenitic Stainless steel	AISI304	DIN1.4301	DIN1.4301
Motor bracket	Cast iron	Class 25B	GG-20	FC200

Data Curve

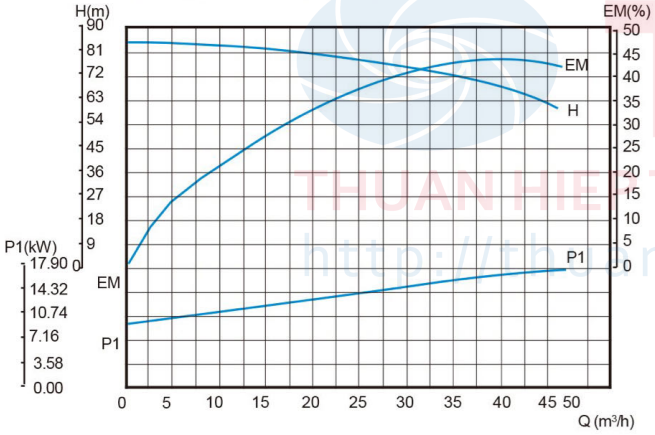
STE40-200/75



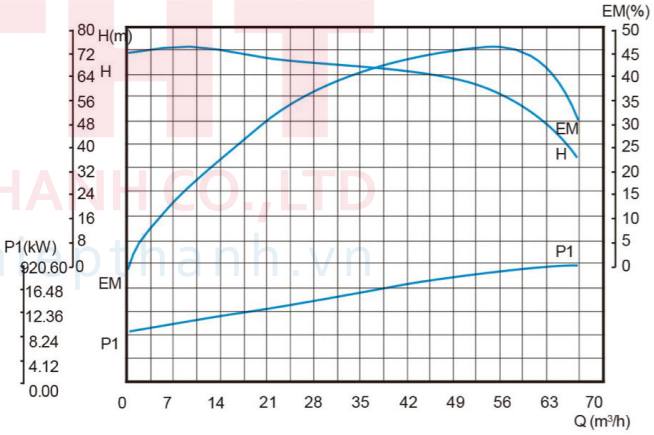
STE40-250/110



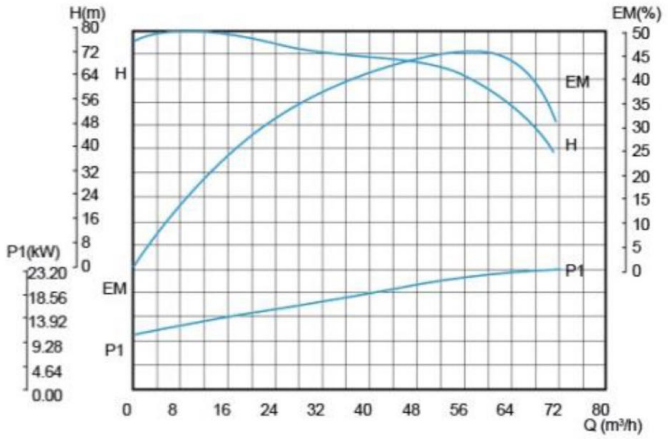
STE40-250/150



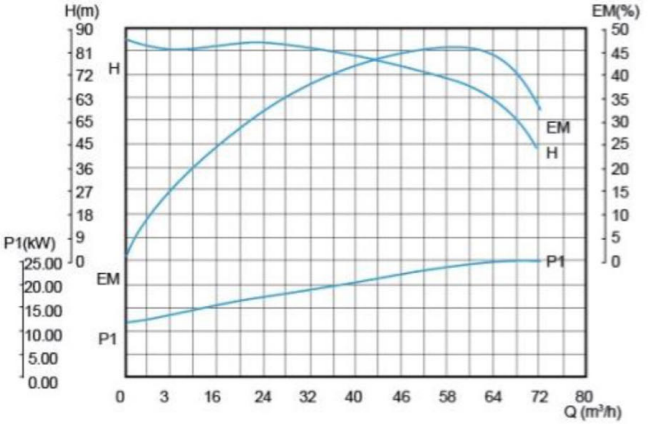
STE50-250/150



STE50-250/185

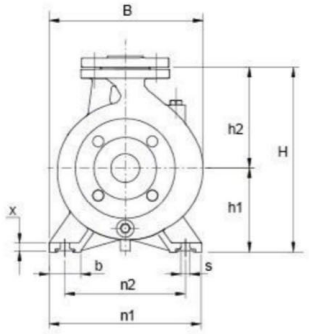


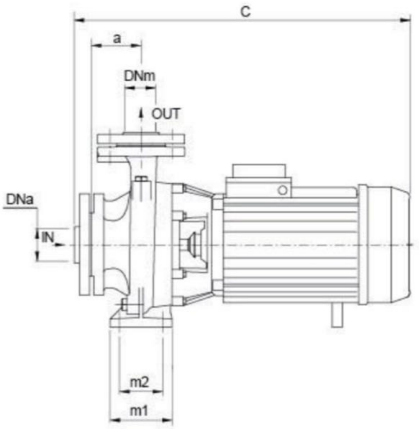
STE50-250/220

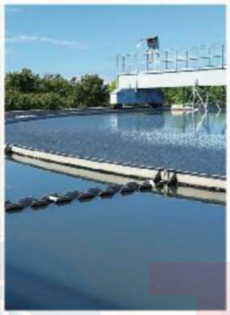


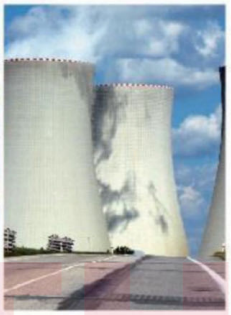
Installation Dimension Drawing

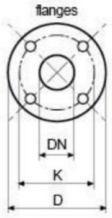
Dimensions (mm)			Holes	
DN	D	K	n°	Ø
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	4	18
100	220	180	8	18











Technical Parameter List

Type	P2 nom.		P1 max	I	Q (m³/h - l/min)													
					0	9	12	15	18	21	24	27	30	33	36	39	42	46
					0	150	200	250	300	350	400	450	500	550	600	650	700	770
	HP	KW	3~	3~	H (m)													
STE40-200/75	10	7.5	-	16.5	55	54	52	51	50	49	48	47	44	39	27	-	-	-
STE40-250/110	15	11.0	-	14.4	73	72	71	71	70	70	70	67	66	64	62	60	56	48
STE40-250/150	20	15	19.0	32.1	85	84	83	82	81	80	77	76	75	73	72	70	63	60

Type	P2 nom.		P1 max	I	Q (m³/h - l/min)												
					0	27	30	33	36	39	42	48	54	60	66	72	78
					0	450	500	550	600	650	700	800	900	1000	1100	1200	1300
	HP	KW	3~	3~	H (m)												
STE50-250/150	20	15	20	24	71	70	69	68	67	66	65	61	58	51	32	-	-
STE50-250/185	25	18.5		35.9	79	77	76	75	74	72	71	68	65	62	57	45	-
STE50-250/220	30	22		40.2	86	85	85	85	84	84	83	82	81	80	78	76	75

Installation Dimension

Type	Dimensions (mm)																		Kg
	DNM	DNA	a	h1	h2	m1	m2	n1	n2	b	x	s	C	B	H	I	L	M	
STE40-200/75	40	65	100	160	180	1100	70	265	212	50	15	14	590	273	340	615	310	460	71
STE40-250/110	40	65	100	180	225	125	95	320	250	65	15	14	630	322	405	665	335	535	91
STE40-250/150	40	65	100	180	225	125	95	320	250	65	15	14	700	322	405	735	335	535	121
STE50-250/150	50	65	100	180	225	125	95	320	250	65	14	14	705	332	405	735	355	535	125
STE50-250/185	50	65	100	180	225	125	95	320	250	65	14	14	750	332	405	815	355	535	140
STE50-250/220	50	65	100	180	225	125	95	320	250	65	14	14	750	332	405	815	355	535	149



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