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HANGOUT
GHAR PE!

Crompton





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Crompton Award
(LA) Once again**



Smart solutions.
Strong relationships.

PRODUCT CATALOGUE



PUMPS • EXHAUST FANS • COOLER KITS • MOTOR STARTERS

**COMMERCIAL
PRODUCTS
DIVISION**



AVANTHA
GROUP COMPANY

Motors for General Application

IE2 Motor Series





Smart solutions,
Strong relationships.

SINGLE PHASE CI BODY MOTORS

Sheetal SERIES



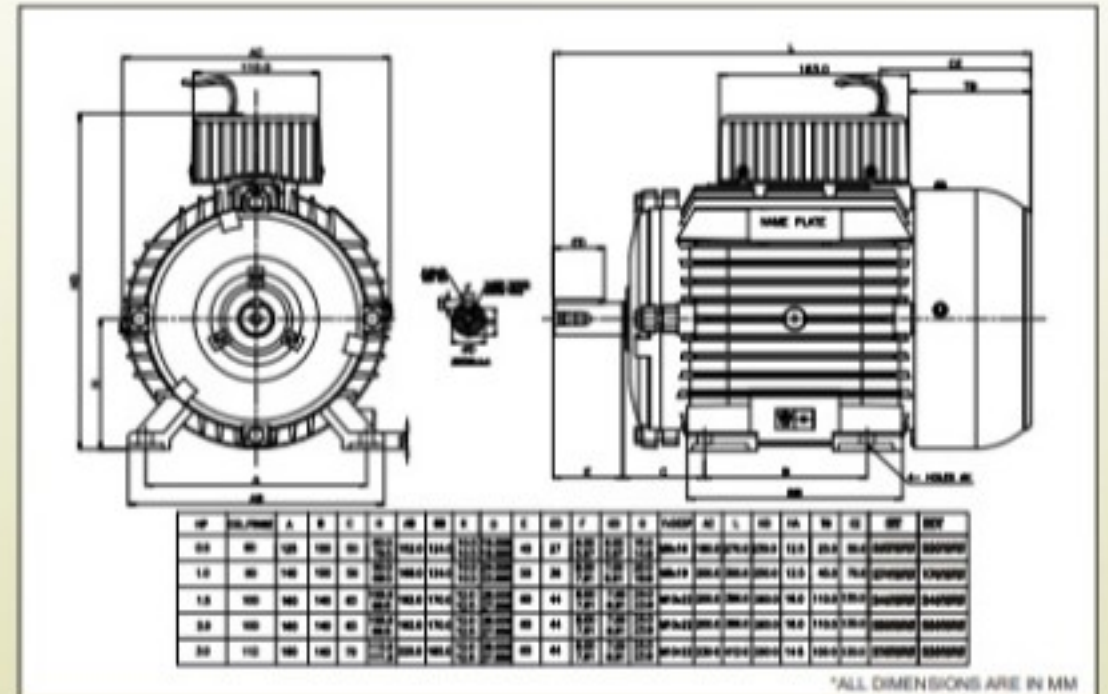
FEATURES

- HIGHER TORQUE LEVELS
- WIDE VOLTAGE SUITABILITY
- LOWER TEMP. RISE
- LIGHT & COMPACT
- ENAMELLED ALUMINIUM WIRE DESIGNS
- SEALED BALL BEARINGS
- DYNAMICALLY BALANCED ROTORS
- HIGHER POWER FACTORS
- THERMALLY PROTECTED

Specially Designed for Rural Applications

SINGLE PHASE CI BODY MOTORS

Sheetal SERIES



Regional Offices:

New Delhi: 11, Sanyal Marg, New Delhi-110 001
Phone: (011) 3041000, 30414915

Kolkata: 30, Chatterjee Road, Kolkata-700 071
Phone: (033) 2282481/83, 22826977

Mumbai: Koper Marg (E), Mumbai-400 042
Phone: (22) 47538000, 47538492

Chennai: Crompton House - 3, Dr. M. G. R. Salai, Nungambakam, Chennai-400 034
Phone: (044) 42347500, 42347583

Crompton Greaves Limited
Commercial Motors Division,
105 - 106, Park Road Industrial Estate, Park Road, Sec-43, Gurgaon, Haryana-122 002, India
Tel. No.: 0122 - 3081200, 3081210, 3081215, 3081241
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Registered Office:
CG House, 6th Floor, Dr. Ambedkar Road, West, Mumbai-400 030, India
Website: www.cgpl.com



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Strong relationships.

SINGLE PHASE 100S FRAME WOOD WORKING MOTORS

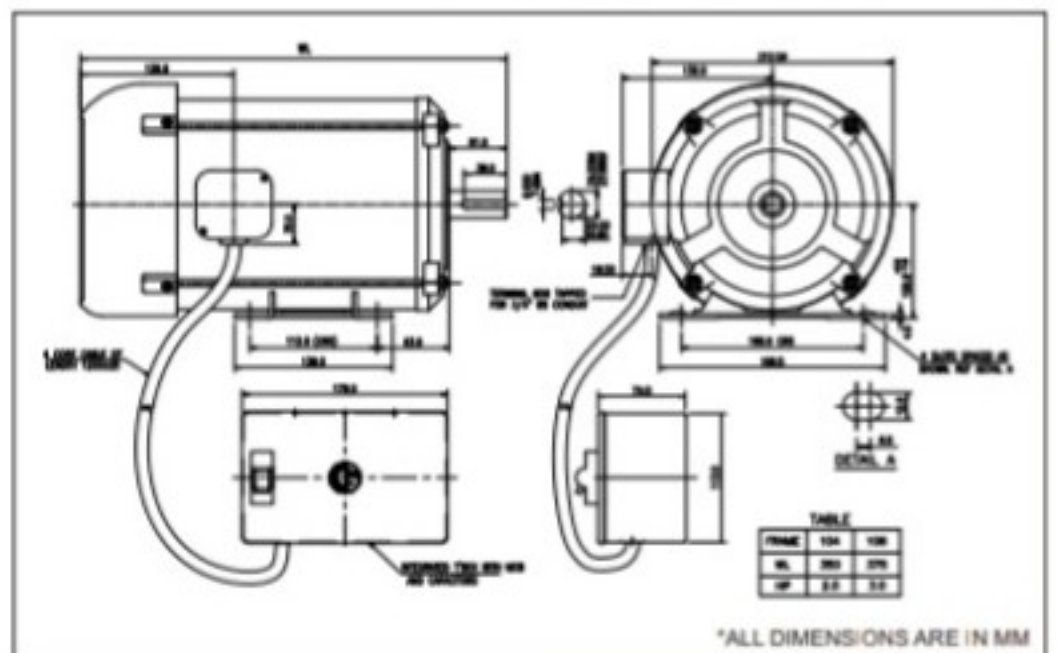


FEATURES:

- HEAVY DUTY DESIGNS
- HIGHER TORQUE LEVELS
- CLASS F INSULATION
- MCB PROTECTION
- SEPARATE CONTROL BOX
- EASE OF MOUNTING
- ENAMELLED COPPER WIRE DESIGNS



SINGLE PHASE 100S FRAME WOOD WORKING MOTORS



AVAILABLE RANGE 2, 3HP - 4 POLE



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Efficiency comparison and energy saving of standard motor and IE2 motor

Rating (kW)	11		55	
Efficient Standard	Standard	IE2	Standard	IE2
Purchase Cost (Rs.)	25676	30340	132236	149944
Catalogue Efficiency %	89.0	89.8	93.8	93.5
Input Power (kW) for IE2 motor as per catalogue		11.0/0.898 =12.249		55.0/0.935 =58.824
Additional Stray load losses (kW) over Standard motor		(0.2424-0.0550) = 0.187		(0.959-0.275) =0.684
Normalized IE2 Efficiency % with 0.5% Stray losses assumed		11.0 / (12.249 -0.187) =91.2		55.0/ (58.824-0.684) =94.6
Motor losses(kW)	(11.0/0.89) - 11.0 =1.36	(11.0/0.912) - 11.0 =1.062	(55.0/0.938) -55.0 =3.636	(55.0/0.95) -55.0 =2.894
Saving (kW)	1.36-1.062=0.298		3.636-2.894=0.742	
Saving in energy (kWH) @8000 Hrs running per year	2384		5936	
Average Energy Cost (Rs.)	7			
Annual Saving (Rs.)	16688		41552	
Payback period for additional purchase cost for IE2	3.35 month		5.11 month	
Saving (Rs.) in 20 years	333760		831040	

For Standard motor, stray load loss is 0.5% of output
 Stray load loss for 11kW motor is 0.055 kW
 Stray load loss for 55kW motor is 0.275 kW

For IE2 motor, as per nomogram (figure 11 of IS 15999)
 Stray load loss for 11kW motor is 0.2424 kW
 Stray load loss for 55kW motor is 0.959 kW





AMFLEX
WIRES
&
CABLES

ASSURED BY 99.9% PURE COPPER

LOW MOISTURE ABSORPTION AND CHEMICAL RESISTANT

HIGH AGEING PROPERTY



Enriching Lives

KV

Vacuum Pumps



Vacuum : Upto 650 mm of Hg
 Air flow rate : Upto 55 m³/hr
 Power rating : 0.75 - 2.2 kW (1 - 3 HP)
 Voltage range : 180-240V (1 Ph)
 300-440V (3 Ph)

DV

Vacuum Pumps



DV

Vacuum Pump Coupled Set



Vacuum : Upto 660 mm of Hg
 Air flow rate : Upto 162m³/hr
 Power rating : 3.7 - 7.5 kW (5 - 10 HP)
 Voltage range : 415+/- 10 V (3 Ph)

Attributes:

- Motor withstands wide voltage fluctuations
- Impeller of high quality bronze material
- Designed to prevent overloading and motor burning
- Sturdy casing, provided with foot, suction and delivery nozzles
- Rotor having outwardly bent multi blade design held on shaft by shaft sleeve nuts
- Replaceable wearing parts
- Models with 'B' class insulation and IP-44 protection. In case DV couple set with 'F' class insulation & IP 55
- Deep stuffing box for better sealing
- Dynamically balanced rotating parts ensure minimum vibrations

Note for DV: Bare pump/ factory assigned & assembled, both options available

Approximate performance of 'KV and DV' Series, Monobloc/ Coupled Set Vacuum Pumps, at rated speed, 50 Hz, AC Power Supply:

PUMP MODEL	POWER RATING		PIPE SIZE		VACUUM IN mm OF MERCURY								RATED SPEED (RPM)
					0	100	200	300	400	500	600	640	
	kW	HP	SUC.	DEL.	AIR FLOW RATE IN CUBIC METRES PER HOUR								
KV 20 Monobloc	0.75	1.0	20	20	20.5	18.0	14.5	11.5	8.0	5.0	1.8	-	2700
KV 30 Monobloc	2.2	3.0	32	32	55.0	46.3	38.0	30.0	21.3	13.0	5.0	-	2840
DV 40 Coupled Set/ Bare Pump	3.7	5.0	40	40	73.0	65.0	57.0	46.0	34.0	22.0	8.0	5.0	1450
DV 50 Coupled Set/ Bare Pump	7.5	10.0	50	50	162.0	138.0	115.0	88.0	68.0	44.0	14.0	8.0	1450

Standard supply of KV 20 pumpset is in single phase and KV 30 in three phase A.C. power supply. However, KV 20 three phase A.C. power supply is supplied against requirement.

NOTE: Performance applicable for air at NTP based on employment of clear water at 30°C as working fluid.



Enriching Lives

KV

Vacuum Pumps



Vacuum : Upto 650 mm of Hg
 Air flow rate : Upto 55 m³/hr
 Power rating : 0.75 - 2.2 kW (1 - 3 HP)
 Voltage range : 180-240V (1 Ph)
 300-440V (3 Ph)

DV

Vacuum Pumps



DV

Vacuum Pump Coupled Set



Vacuum : Upto 660 mm of Hg
 Air flow rate : Upto 162m³/hr
 Power rating : 3.7 - 7.5 kW (5 - 10 HP)
 Voltage range : 415+/- 10 V (3 Ph)

Attributes:

- Motor withstands wide voltage fluctuations
- Impeller of high quality bronze material
- Designed to prevent overloading and motor burning
- Sturdy casing, provided with foot, suction and delivery nozzles
- Rotor having outwardly bent multi blade design held on shaft by shaft sleeve nuts
- Replaceable wearing parts
- Models with 'B' class insulation and IP-44 protection. In case DV couple set with 'F' class insulation & IP 55
- Deep stuffing box for better sealing
- Dynamically balanced rotating parts ensure minimum vibrations

Note for DV: Bare pump/ factory assigned & assembled, both options available

Approximate performance of 'KV and DV' Series, Monobloc/ Coupled Set Vacuum Pumps, at rated speed, 50 Hz, AC Power Supply:

PUMP MODEL	POWER RATING		PIPE SIZE		VACUUM IN mm OF MERCURY								RATED SPEED (RPM)
					0	100	200	300	400	500	600	640	
	kW	HP	SUC.	DEL.	AIR FLOW RATE IN CUBIC METRES PER HOUR								
KV 20 Monobloc	0.75	1.0	20	20	20.5	18.0	14.5	11.5	8.0	5.0	1.8	-	2700
KV 30 Monobloc	2.2	3.0	32	32	55.0	46.3	38.0	30.0	21.3	13.0	5.0	-	2840
DV 40 Coupled Set/ Bare Pump	3.7	5.0	40	40	73.0	65.0	57.0	46.0	34.0	22.0	8.0	5.0	1450
DV 50 Coupled Set/ Bare Pump	7.5	10.0	50	50	162.0	138.0	115.0	88.0	68.0	44.0	14.0	8.0	1450

Standard supply of KV 20 pumpset is in single phase and KV 30 in three phase A.C. power supply. However, KV 20 three phase A.C. power supply is supplied against requirement.

NOTE: Performance applicable for air at NTP based on employment of clear water at 30°C as working fluid.



Enriching Lives

KDS+/ GMC

Three Phase Monobloc Pumps

High speed monobloc pump

Head range : Upto 76 metres

Discharge range : Upto 49 lps

Power rating : 0.37 - 22 kW
(0.5 - 30 HP)

Voltage range : 300 - 440 V (3 Ph)



KS+

Monobloc Pumps

Head range : Upto 22 metres

Discharge range : Upto 72 lps

Power rating : 2.2 - 7.5 kW
(3 - 10 HP)

Voltage range : 300-440 V (3 Ph)



Attributes:

- Flatter efficiency curve for efficient operation
- Designed to prevent overloading and motor burning
- Designed for automatic air release during priming
- Efficiency at par with international pumps
- Dynamically balanced rotating parts ensuring minimum vibration during running
- Class 'B' / 'F' insulation
- Replaceable wearing parts
- Models with IP55 protection

KDT+

Monobloc Pumps

Two stage high speed monobloc pump

Head range : Upto 110 metres

Discharge range : Upto 20 lps

Power rating : 3.7 - 15 kW
(5 - 20 HP)

Voltage range : 300-440 V (3 Ph)









