



Heavy Duty DC Traction Motors

5 - 75 kW Series wound

48 - 600v supplies

APPLICATION

For use in non-hazardous areas, designed for general purpose traction duty on industrial trucks, road vehicles and mining/tunnelling locos.

RATINGS AND PERFORMANCE

The ratings and performance of STS traction-motors are to BS1727

INSULATION CLASS

Motors are wound with Class H insulation with Class F rise.

ENVIRONMENT

Standard ratings are based upon an ambient temperature range of -20°C . to $+40^{\circ}\text{C}$. with altitudes up to 1000 metres above sea level. De-rated motors for higher temperatures and altitudes are available.

SUPPLIES

48-600v battery or generated pure DC. De-rated motors for operation on un-smoothed rectified/SCR supplies can be offered.

ENCLOSURE AND COOLING

Protection to IP54

Cooling to IC 0041

MOUNTING ARRANGEMENTS

Motors are available with foot and/or flange mountings, with D type or C face mounting with metric dimensions to IEC 72-1

DRIVE SHAFTS

The standard main drive shaft is parallel keywayed, alternative tapered or internal/external splined shafts are available

Typical ratings for totally enclosed motors with S2 1 hour duty cycle

kW	Speed	Volts	Frame	Length mm	Diam. mm
5.5	1100	48	VD127	420	290
9	1750	72	VD127	420	290
11	1100	96	200I	540	412
15	1500	250	200G	600	412
18	1100	96	225	644	442
22	1250	230	200G	680	412
26	1100	96	225	700	442
30	1370	230	225	715	442
40	1500	120	250	750	495
45	1500	230	250	750	495
55	1100	550	250	900	495
60	1500	250	315	790	660
75	1500	250	315	1050	660

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