

1LE7 Series, basic IE2 motor at S1 duty

Table with columns for Frame, Motor Type, O/p kW, Pole, Voltage (V), Frequency (Hz), Efficiency (%), Power factor, Rated current (A), Speed (rpm), Rated torque (Nm), Ist/In, Ts/In, Tn/In, GD² (kgm²), Motor wt (kg), and Rating and operation data at 415V/50Hz, VFD, Ambient 50°C, Insulation H, Temperature rise F. The table is divided into CDF 25%, CDF 40%, and CDF 60% sections.

The details are subject to revisions based on revision in design/modifications.

Starting losses in crane duty motors when operated with VFD are lower due to controlled starting current, hence though the duty applicable is S4; the practical deviations are to be considered as duty S3. The term used in the table above is 'VDF' for general purpose for crane duty motors operated with VFD.

Derating for ambient temperature to be considered as 0.95 for amb 55°C, 0.90 for amb 60°C.

Max cable length VFD motor 100 m for VFD with 1.25kHz to 4kHz switching frequency.

Suitable for VFD with switching frequency range 1.25kHz to 4kHz.

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Table with columns for Frame, Motor Type, O/p kW, Pole, Voltage (V), Frequency (Hz), Efficiency (%), Power factor, Rated current (A), Speed (rpm), Rated torque (Nm), Ist/In, Ts/In, Tn/In, GD² (kgm²), Motor wt (kg), and Rating and operation data at 400V/50Hz, VFD, Ambient 50°C, Insulation H, Temperature rise F. The table is divided into CDF 25%, CDF 40%, and CDF 60% sections.

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Starting losses in crane duty motors when operated with VFD are lower due to controlled starting current, hence though the duty applicable is S4; the practical deviations are to be considered as duty S3. The term used in the table above is 'VDF' for general purpose for crane duty motors operated with VFD.

Derating for ambient temperature to be considered as 0.95 for amb 55°C, 0.90 for amb 60°C.

Max cable length VFD motor 100 m for VFD with 1.25kHz to 4kHz switching frequency.

Suitable for VFD with switching frequency range 1.25kHz to 4kHz.

Selection and ordering data for crane duty motors for 415V(±10%) 50Hz (±5%) Cvar (±10%), VFD, Ambient 50°C, Insulation F, Temperature rise B, CDF 25%, 40% 60% for 150/300 sph 1L7 Series, basic IE2 motor at S1 duty

Table with columns for Motor Type, O/p kW, Pole, Voltage, Frequency, Efficiency, Power factor, Rated current, Speed, Rated torque, In/In, Tst/Tn, Tl/Tn, GDF (kgm²), Motor wt (kg), and CDF 25%, 40%, 60% ratings.

The details are subject to revisions based on revision in design/modifications.

Starting losses in crane duty motors when operated with VFD are lower due to controlled starting current, hence though the duty applicable is S4, the practical derations are to be considered as duty S3. The term used in the table above is 'CDF' for general purpose for crane duty motors operated with VFD.

Deration for ambient temperatures to be considered are 0.95 for ambient 55°C, 0.90 for ambient 60°C

Max cable length VFD to motor 100 mtr for VFD with 1.25kHz to 4kHz switching frequency.

Suitable for VFD with switching frequency range 1.25kHz to 4kHz

Selection and ordering data for crane duty motors for 400V(±10%) 50Hz (±5%) Cvar (±10%), VFD, Ambient 50°C, Insulation F, Temperature rise B, CDF 25%, 40% 60% for 150/300 sph 1L7 Series, basic IE2 motor at S1 duty

Table with columns for Motor Type, O/p kW, Pole, Voltage, Frequency, Efficiency, Power factor, Rated current, Speed, Rated torque, In/In, Tst/Tn, Tl/Tn, GDF (kgm²), Motor wt (kg), and CDF 40%, 60% ratings.

The details are subject to revisions based on revision in design/modifications.

Starting losses in crane duty motors when operated with VFD are lower due to controlled starting current, hence though the duty applicable is S4, the practical derations are to be considered as duty S3. The term used in the table above is 'CDF' for general purpose for crane duty motors operated with VFD.

Deration for ambient temperatures to be considered are 0.95 for ambient 55°C, 0.90 for ambient 60°C

Max cable length VFD to motor 100 mtr for VFD with 1.25kHz to 4kHz switching frequency.

Suitable for VFD with switching frequency range 1.25kHz to 4kHz

1LE7 Series, basic IE3 motor at S1 duty

Table with columns for Frame, Motor Type, O/V, Pole, Voltage, Frequency, Efficiency, Power Factor, Rated current, Speed, Rated torque, and various temperature/insulation parameters. It includes sub-sections for Data in S1 duty operation (CDF 100%), CDF 25%, CDF 40%, and CDF 60%.

The details are subject to revision based on revision in design/modifications.

Starting losses in crane duty motors when operated with VFD as lower due to controlled starting current, hence though the duty applicable is S4, the practical operations are to be considered as duty S3. The term used in the table above is 'CDF' for general purpose for crane duty motors operated with VFD.

Derating for ambient temperatures to be considered are 0.95 for amb. 55°C, 0.90 for amb. 60°C

Max cable length VFD to motor 100 mtr for VFD with 1.25kV to 4kV switching frequency.

Suitable for VFD with switching frequency range 1.25kHz to 4kHz

1LE7 Series, basic IE3 motor at S1 duty

Table with columns for Frame, Motor Type, O/V, Pole, Voltage, Frequency, Efficiency, Power Factor, Rated current, Speed, Rated torque, and various temperature/insulation parameters. It includes sub-sections for Data in S1 duty operation (CDF 100%), CDF 25%, CDF 40%, and CDF 60%.

The details are subject to revision based on revision in design/modifications.

Starting losses in crane duty motors when operated with VFD as lower due to controlled starting current, hence though the duty applicable is S4, the practical operations are to be considered as duty S3. The term used in the table above is 'CDF' for general purpose for crane duty motors operated with VFD.

Derating for ambient temperatures to be considered are 0.95 for amb. 55°C, 0.90 for amb. 60°C

Max cable length VFD to motor 100 mtr for VFD with 1.25kV to 4kV switching frequency.

Suitable for VFD with switching frequency range 1.25kHz to 4kHz

Selection and ordering data for crane duty motors for 415V(±10%) 50Hz (±5%) Cvar (±10%), VFD, Ambient 50°C, Insulation F, Temperature rise B, CDF 25%, 40% 60% for 150/300 sph 1LE7 Series, basic IE3 motor at S1 duty

Table with columns for Frame, Motor Type, G/P, Pole, Voltage, Frequency, Efficiency, Power factor, Rated current, Speed, Rated torque, Inertia, and various performance metrics for CDF 25%, 40%, and 60% at 415V/50Hz VFD, Ambient 50°C, Insulation F, Temperature rise B.

The details are subject to revision based on revision in design/modification. Starting losses in crane duty motors when operated with VFD are lower due to controlled starting current, hence though the duty applicable is S4, the practical derating is to be considered as duty S3. The term used in the table above is 'CDF' for general purpose for crane duty motors operated with VFD. Derating for ambient temperature to be considered as 0.95 for ambient 55°C, 0.90 for ambient 60°C. Max cable length VFD to motor 100 m for VFD with 1.25kHz to 4kHz switching frequency. Suitable for VFD with switching frequency range 1.25kHz to 4kHz.

Selection and ordering data for crane duty motors for 400V(±10%) 50Hz (±5%) Cvar (±10%), VFD, Ambient 50°C, Insulation F, Temperature rise B, CDF 25%, 40% 60% for 150/300 sph 1LE7 Series, basic IE3 motor at S1 duty

Table with columns for Frame, Motor Type, G/P, Pole, Voltage, Frequency, Efficiency, Power factor, Rated current, Speed, Rated torque, Inertia, and various performance metrics for CDF 25%, 40%, and 60% at 400V/50Hz VFD, Ambient 50°C, Insulation F, Temperature rise B.

The details are subject to revision based on revision in design/modification. Starting losses in crane duty motors when operated with VFD are lower due to controlled starting current, hence though the duty applicable is S4, the practical derating is to be considered as duty S3. The term used in the table above is 'CDF' for general purpose for crane duty motors operated with VFD. Derating for ambient temperature to be considered as 0.95 for ambient 55°C, 0.90 for ambient 60°C. Max cable length VFD to motor 100 m for VFD with 1.25kHz to 4kHz switching frequency. Suitable for VFD with switching frequency range 1.25kHz to 4kHz.