

Nidec

Power



LSAP 40

Low Voltage Alternators : 4 Pole

3.5 to 20 kVA
Electrical and Mechanical data

ELECTRICAL DATA

LSAP 40 : 4 Pole, 1Ø

50 Hz, 1500 RPM

General Characteristics

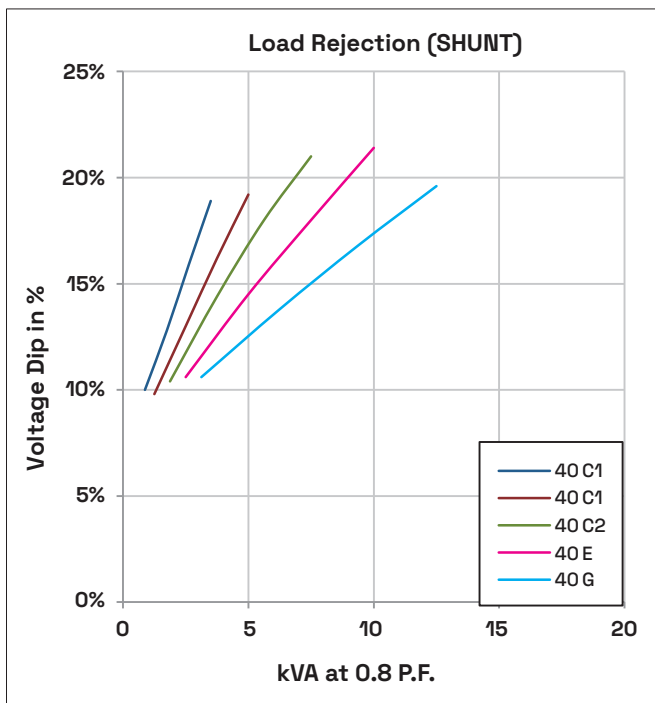
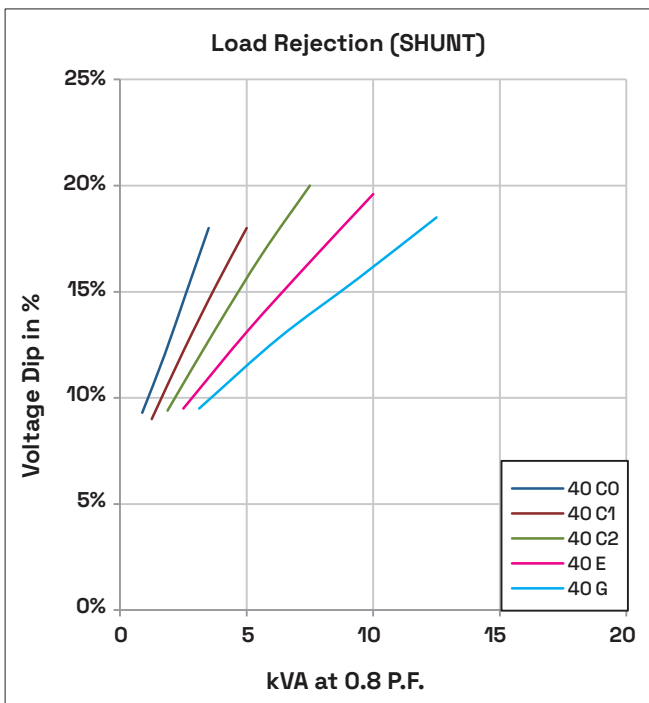
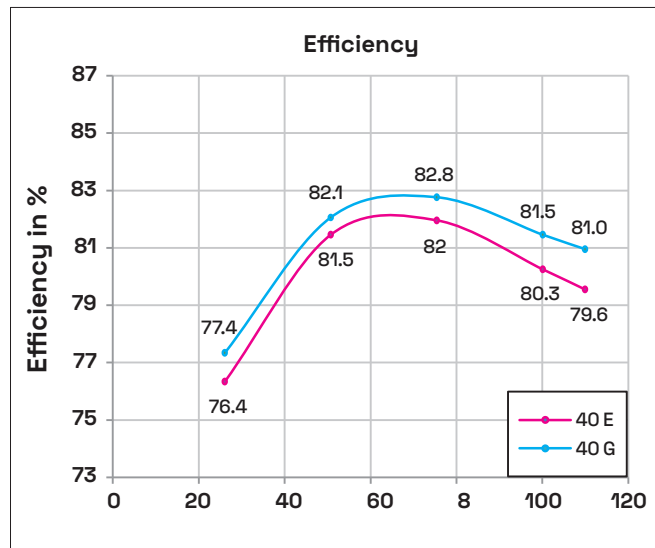
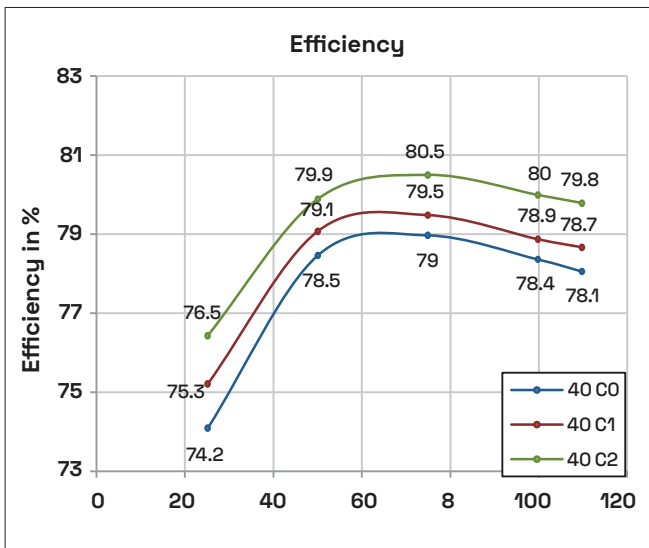
Insulation Class	H	Excitation System	SHUNT
Winding pitch	2/3	AVR Model	R121
Terminals	2/4 (Optional)	Voltage Regulation (*)	± 1%
Protection	IP 23	Total harmonic Distortion (**)	< 3%
Altitude	≤ 1000 m	Wave form: TIF (**)	< 50
Over speed	120% for 2 mins		
Air flow	0.11 m ³ /s		

(*) Steady state duty. (**) Total harmonic distortion between phases, no-load or on-load (non-distorting).

Ratings KVA @ 0.8 P.F **1 Phase 230V, 50 Hz, 1500 RPM*****

Duty	Class/Temp. Rise	C0	C1	C2	E	G
Standby Duty / 40°C	H / 150°C	3.5	5	7.5	10	12.5
	F / 105°C	3.15	4.5	6.75	9.0	11.3
Standby Duty / 27°C	H / 163°C	4	5.5	8.2	11	15

(***) Also offering multi-voltage/60 Hz/1800 RPM.



General Characteristics

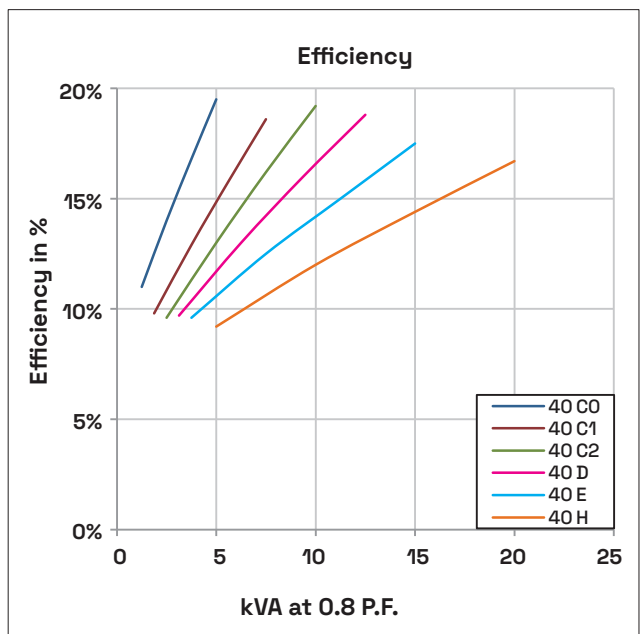
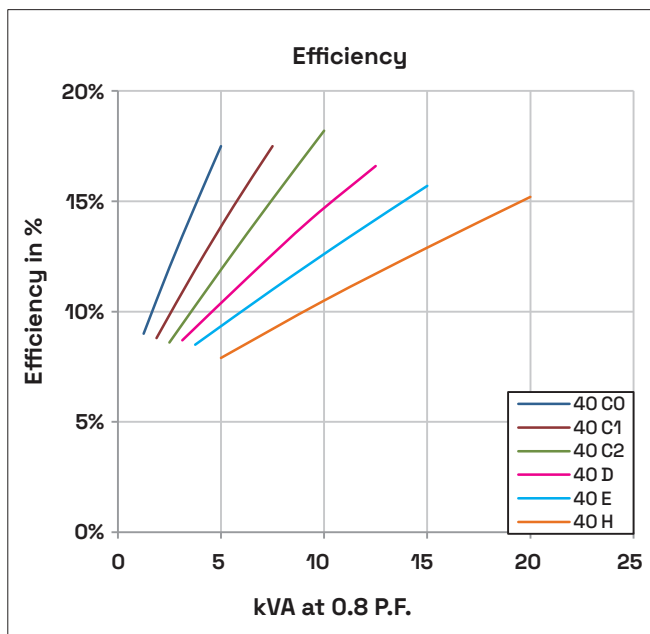
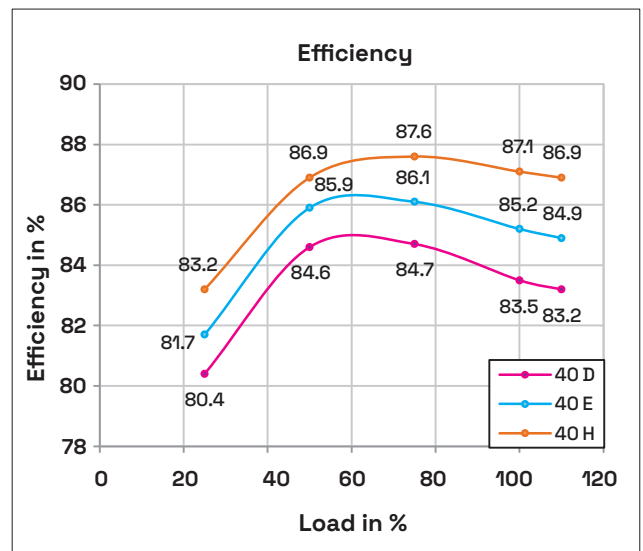
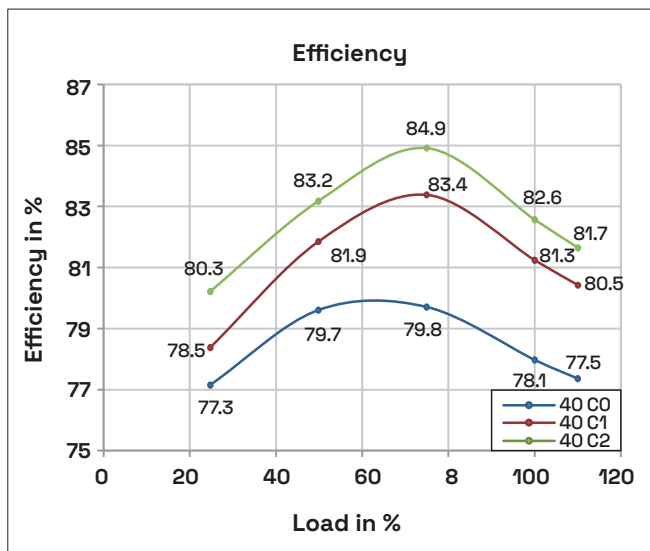
Insulation Class	H	Excitation System	SHUNT / AREP (Optional)
Winding pitch	2/3	AVR Model	R120/D350 (Optional)
Terminals	6/12 (Optional)	Voltage Regulation (*)	± 1%
Protection	IP 23	Sustained short-circuit current	300% of FLC for 10 s (AREP)
Altitude	≤ 1000 m	Total harmonic Distortion (**)	< 2%
Over speed	120% for 2 mins	Wave form: TIF (**)	< 50
Air flow	0.11 m ³ /s		

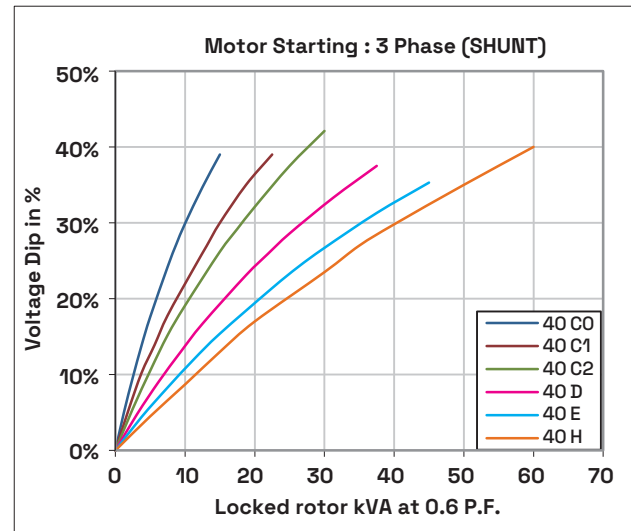
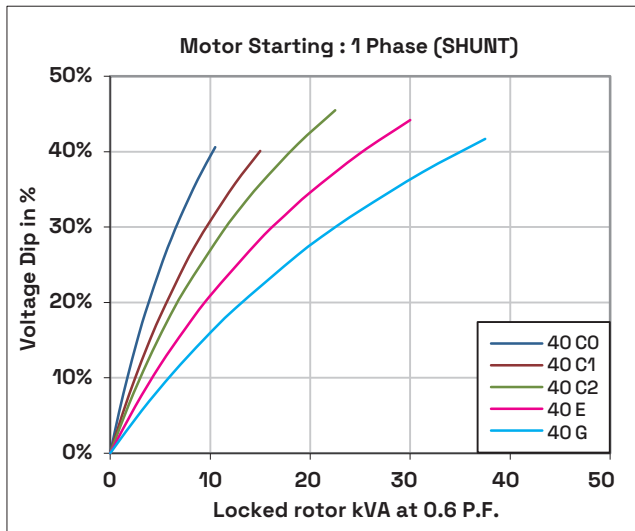
(*) Steady state duty. (**) Total harmonic distortion between phases, no-load or on-load (non-distorting).

Ratings KVA @ 0.8 P.F

3 Phase 415 V , 50 Hz, 1500 RPM***

Duty	Class/Temp. Rise	C0	C1	C2	D	E	H
Standby Duty / 40°C	H / 150°C	5	7.5	10	12.5	15	20
	F / 105°C	4.5	6.75	9.0	11.3	13.5	18
Standby Duty / 27°C	H / 163°C	5.5	8.25	11	13.75	16.5	22



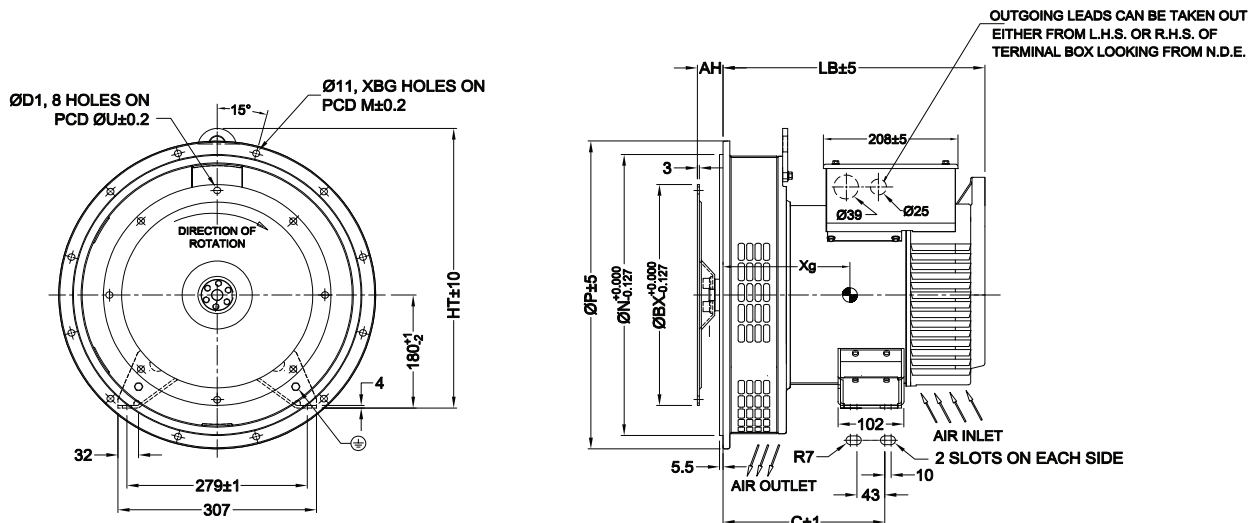


1. For a starting P.F. differing from 0.6, the starting kVA must be multiplied by $(\text{Sine } \phi/0.8)$
2. For voltages other than 415V(Y) at 50 Hz, kVA must be multiplied by $(415/\text{Other voltage})^2$

MECHANICAL DATA

LSAP 40 : 4 Pole

SINGLE BEARING



Frame Dimensions (mm) & Weight

Type	LB	Xg	C	Weight (kg) approx
LSAP 40 C0	365	176	193	66
LSAP 40 C1	365	176	193	66
LSAP 40 C2	365	176	193	72
LSAP 40 D	405	186	250	79
LSAP 40 E	405	196	250	95
LSAP 40 G	435	221	250	111
LSAP 40 H	455	221	250	112

Flange (mm)

Disc Plate (mm)

S.A.E	ØP	ØN	ØM	XBG	HT	DISC	AH	ØBX	ØD1	ØU	SAE/DISC	7.5	10	11.5
2	490	447.68	466.72	12	445	7.5	30.2	241.3	9	222.25	S.A.E 2	X	✓	✓
3	452.5	409.58	428.62	12		10	53.8	314.32	11	295.28	S.A.E 3	✓	✓	✓
4	411	361.95	381	12	412	11.5	39.6	352.42	11	333.38	S.A.E 4	✓	X	X
5	358	314.32	333.38	8	390							✓	X	X

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According to IS: 13364, I.E.C. 60034-1/34-2. The values indicated are typical.
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