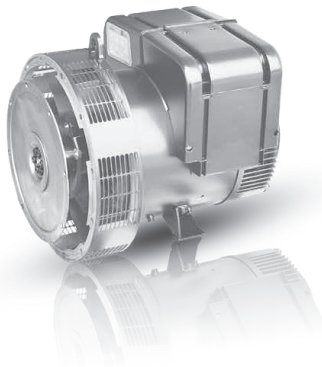


TAL A40

13– 30 kVA



Leroy-Somer is a leading global supplier of alternators for emergency power. Our new TAL low voltage alternators, with optimal performance for commercial and industrial applications, are a simple, efficient solution for your onsite power requirements.

Leroy-Somer's TAL alternators are specially designed to meet the power needs of telecom towers and commercial and industrial buildings. TAL is compatible with most engine brands.

Common Data

Insulation Class	H	Excitation System	SHUNT
Winding Pitch	2/3 (Winding 6S)	A.V.R. Model	R120
Leads	6	Voltage Regulation (*)	± 1 %
Drip Proof	IP 23	Total Harmonic THD (**) in no-load	< 3.5 % according to C.E.I.
Altitude	≤ 1000 m	Total Harmonic THD (**) in linear load:	< 5 % according to C.E.I.
Overspeed	2250 R.P.M.	Waveform NEMA = TIF (**)	< 50
(*) Steady state duty. (**) Total harmonic content line to line, at no loads of full rated linear and balanced loads.		Waveform I.E.C. = THF (**)	< 2%

Ratings (50 Hz – 1500 r.p.m and 60 Hz – 1800 r.p.m.)

kVA / kW - P.F. = 0.8																
TAL A40	50 Hz - 1500 R.P.M.						60 Hz - 1800 R.P.M.									
Duty/T°C	Continuous / 40°C			St. By/ 27°C			Reactance	Continuous / 40°C				St. By/ 27°C				
Class/T°K	H / 125°K			H / 163°K				H / 125°K				H / 163°K				
	Rating kVA			Rating kVA				Rating kVA				Rating kVA				
Phase	3 ph.			3 ph.				3 ph.				3 ph.				
Y	380V	400V	415V	380V	400V	415V	x'd	x'd	380V	416V	440V	480V	380V	416V	440V	480V
Δ	220V	230V	240V	220V	230V	240V			220V	240V	254V	277V	220V	240V	254V	277V
TAL-A40-C	13	13	13	14	14	14	19.1	9.5	12	13.4	14	15.5	13.5	15	15.5	17
TAL-A40-D	15	15	15	16.5	16.5	16.5	17.7	8.8	14	15.3	16	18	15.8	16.8	17.8	20
TAL-A40-E	17.5	17.5	17.5	19.3	19.3	19.3	18.2	9	17	17.9	19	21	18.5	19.6	20.8	23
TAL-A40-F	20	20	20	22	22	22	19.2	9.5	19	20.5	21.5	24	21	22.5	24	26
TAL-A40-G	25	25	25	27.5	27.5	27.5	19.1	9.5	24	26	27	30	26	28.5	30	33

Leroy-Somer™

Efficiencies (%)

Class H / 40 ° C

	Three Phase: 400 V - 50 Hz										Three Phase: 480 V - 60 Hz										
	P.F. = 0.8					P.F. = 1					P.F. = 0.8					P.F. = 1					
	1/4	2/4	3/4	4/4	St.By	1/4	2/4	3/4	4/4	St.By	1/4	2/4	3/4	4/4	St.By	1/4	2/4	3/4	4/4	St.By	
TAL-A40-C	76.1	82.7	83.6	81.1	78.7	77.7	84.6	87.1	86.7	86.0	TAL-A40-C	76.6	83.0	84.8	83.3	81.3	78.2	84.6	87.6	87.8	87.0
TAL-A40-D	76.5	82.4	83.7	82.2	80.2	77.9	83.7	86.1	86.0	85.3	TAL-A40-D	78.0	83.4	85.4	84.2	82.5	79.6	84.7	87.6	87.9	87.4
TAL-A40-E	77.7	83.5	84.9	83.5	81.6	79.1	84.6	87.0	86.9	86.3	TAL-A40-E	79.2	84.4	86.4	85.3	84.3	80.8	85.6	88.4	88.7	88.6
TAL-A40-F	79.4	85.2	86.0	83.6	80.8	81.0	86.7	88.9	88.4	87.6	TAL-A40-F	80.2	85.5	87.1	85.4	83.2	81.4	86.4	89.1	89.0	88.6
TAL-A40-G	80.3	86.1	87.3	85.5	83.1	81.7	87.3	89.6	89.3	88.4	TAL-A40-G	81.1	86.4	88.2	87.1	85.2	82.1	87.0	89.8	89.9	89.3

Transient Voltage Variation – Motor Starting

