

TAL A49

730 - 1250 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	AREP / PMG
Winding pitch	2/3 (Winding 6S)	AVR type	R 150	R 180
Number of wires	6	Voltage regulation (*)	± 1 %	
Protection	IP 23	Total Harmonic distortion THD (**) in no-load	< 3.5 % according to C.E.I.	
Altitude	≤ 1000 m	Total Harmonic distortion THD (**) in linear load:	< 5 % according to C.E.I.	
Overspeed	2250 R.P.M.	Waveform: NEMA = TIF (**)	< 50	
Air flow (m³/s)	50Hz: 1 60Hz: 1.2	Waveform: I.E.C. = THF (**)	< 2%	

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

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

kVA / kW - P.F. = 0.8															
TAL A49		50 Hz - 1500 R.P.M.						60 Hz - 1800 R.P.M.							
Duty/T°C		Continuous / 40°C			Stand-by / 27°C			Continuous / 40°C			Stand-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	380V	416V	440V	480V	380V	416V	440V	480V
Δ		220V	230V	240V	220V	230V	240V	220V	240V	254V	277V	220V	240V	254V	277V
TAL-A49-B		730	730	730	805	805	805	725	795	840	915	800	875	925	1005
TAL-A49-C		820	820	820	910	910	910	815	890	940	1025	895	980	1040	1130
TAL-A49-D		910	910	910	1010	1010	1010	905	990	1045	1140	1000	1090	1155	1255
TAL-A49-E		1000	1000	1000	1100	1100	1100	990	1083	1146	1250	1089	1192	1260	1375

Efficiencies (%)

Class H / 40 ° C

Three Phase: 400 V - 50 Hz

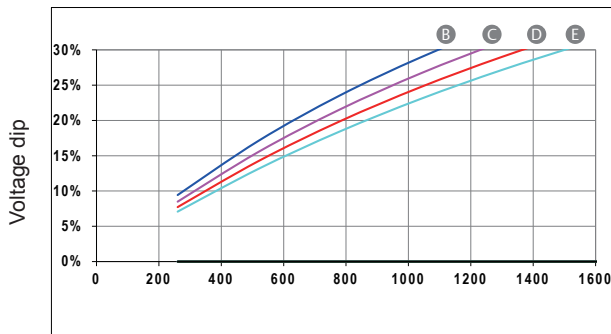
Three Phase: 480 V - 60 Hz

	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-A49-B	93.6	94.8	94.4	93.6	93.2	94.4	96.0	96.0	95.7	95.5	TAL-A44-C	92.6	94.4	94.3	93.7	93.4	93.3	95.5	95.8	95.6
TAL-A49-C	92.9	94.6	94.5	93.9	93.6	93.6	95.8	96.1	96.0	95.8	TAL-A44-D	91.9	94.2	94.4	94.0	93.8	92.6	95.3	95.9	95.9	95.8
TAL-A49-D	94.3	95.4	95.1	94.5	94.1	94.9	96.4	96.5	96.3	96.1	TAL-A44-E	93.4	95.1	95.1	94.6	94.3	94.0	96.0	96.3	96.2	96.1
TAL-A49-E	93.9	95.4	95.4	94.9	94.7	94.6	96.4	96.7	96.5	96.4	TAL-A44-H	93.1	95.1	95.3	95.0	94.8	93.6	96.0	96.4	96.4	96.4

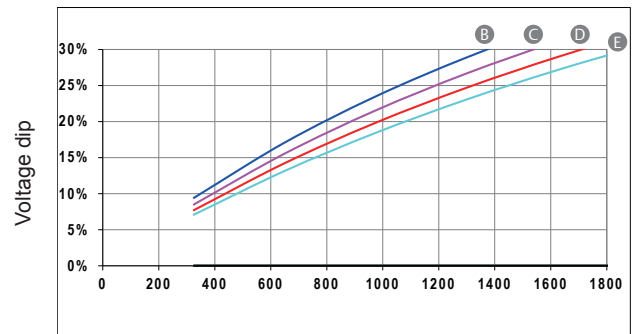
Transient Voltage Variation – Motor Starting

400V - 50 Hz

480V - 60 Hz



KVA at P.F.=0.6



KVA at P.F.=0.6

Locked Rotor – kVA at Ø 0.6 Power Factor