Nidec Power



TAL 046

Low Voltage Alternator - 4 poles

230 to 365 kVA - 50 Hz / 288 to 438 kVA - 60 Hz

Electrical and mechanical data

LEROY-SOMER™

The best of performance

The Leroy-Somer™ TAL 046 alternator has been designed to offer you the best power generation performances. With its meticulous design and optimized architecture, the TAL 046 strikes the perfect balance between compactness, reliability, performance and longevity.
Whatever your application, the Leroy-Somer™ TAL 046 alternator will meet your needs and will adapt to all situations.







Standards

The Leroy-Somer™ TAL 046 alternator meets all key international standards and regulations, including IEC 60034, NEMA MG 1.32-33, ISO 8528-3, CSA C22.2 n°100-14 and UL 1446 (UL 1004 on request).
Also compliant with IEC 61000-6-2, IEC 61000-6-3, IEC 61000-6-4, VDE 0875G, VDE 0875N and EN 55011, group 1 class A for European zone.
The Leroy-Somer™ TAL 046 alternator can be integrated in EC marked generator set, and bears EC, UKCA and CMIM markings.
It is designed, manufactured and marketed in an ISO 9001 and ISO 14001 quality assurance environment.

Electrical characteristics and performances

- Class H insulation
- Shunt excitation
- Low voltage winding:
  Three-phase 50 Hz: 220V - 240V and 380V - 415V (440V)
  60 Hz: 208V - 240V and 380V - 480V
- 6-terminal plates in 6-wire version or suitable for 12-wire option
- Optimized performance

Excitation and regulation system

	Excitation system				Regulation options		
	AVR	SHUNT	AREP+ (option)	PMG (option)	$UL_{C/US}$	Remote voltage potentiometer	C.T. Current transformer for paralleling
Three-phase 6-wire	R150	Standard				√	
	R180		Standard	Standard		√	√
	D350	Option	Option	Option	√	√	√*
Three-phase 12-wire**	R150	Standard				√	
	R250	Option			√	√	
	R180		Standard	Standard		√	√
	D350	Option	Option	Option	√	√	√*

*: only with AREP+ or PMG **: with larger terminal box

Protection system and options

- Degree of protection: IP 23
- Complete winding protection for non-harsh environments with relative humidity ≤ 95%
- Options:
  - Three-phase 12-wire with 9-terminal plates
  - AREP+ or PMG excitation
  - ULc/us
  - Customized painting (unpainted machine as standard)
  - Space heater
  - Droop kit for alternator paralleling
  - Stator sensors
  - Winding 8 optimized for three-phase 380V / 416 V - 60 Hz
  - Reinforced winding protection for harsh environments and relative humidity greater than 95% (system 2 - 4): for TAL 046 H apply a derating coefficient of 0.97

Mechanical construction

- Compact and rugged assembly to withstand engine vibrations
- Steel frame
- Cast iron flanges and shields
- Single-bearing design to be suitable with most diesel engines
- Greased for life bearings
- Direction of rotation: clockwise and counterclockwise without derating

Terminal box design

- Easy access to AVR and terminals
- Standard terminal box with possibility of mounting measurement CTs
- Possibility of current transformer for parallel operation

General characteristics

Insulation class	H
Winding pitch	2/3 (wind.6S - 6-wire / wind.6 - 12-wire)
Number of wires	6 (12 option)
Protection	IP 23
Altitude	≤ 1000 m
Overspeed	2250 R.P.M.
Air flow 50 Hz	0.48 m³/s
Air flow 60 Hz	0.58 m³/s
AREP+/PMG Short-circuit current = 2.7 In: 5 seconds (*)	

Excitation system 6-wire	SHUNT	AREP+ / PMG
AVR type	R150	R180
Excitation system 12-wire (option)	SHUNT	AREP+ / PMG
AVR type	R150	R180
Voltage regulation (**)	± 0.8 %	± 0.5 %
Total Harmonic Distortion THD (***) in no-load	< 2.5 %	
Total Harmonic Distortion THD (***) in linear load	< 5 %	
Waveform: NEMA = TIF (***)	< 50	
Waveform: I.E.C. = THF (***)	< 2%	

(*) D350: 10 seconds (**) Steady state (***) Total harmonic distortion between phases, no-load or on-load (non-distorting)

Ratings 50 Hz - 1500 R.P.M.

kVA / kW - P.F. = 0.8

Duty / T° C		Continuous / 40 °C					Continuous / 40 °C					Stand-by / 40 °C					Stand-by / 27 °C				
Class / T° K		H / 125° K					F / 105° K					H / 150° K					H / 163° K				
Phase		3 ph.				1 ph.	3 ph.				1 ph.	3 ph.				1 ph.	3 ph.				1 ph.
Y		380V	400V	415V	440V		380V	400V	415V	440V		380V	400V	415V	440V		380V	400V	415V	440V	
Δ		220V	230V	240V		230V	220V	230V	240V		230V	220V	230V	240V		230V	220V	230V	240V		230V
YY (*)			200V		220V			200V		220V			200V		220V			200V		220V	
ΔΔ (*)						230V					230V					230V					230V
TAL 046 C	kVA	230	230	230	219	138	209	209	209	199	126	244	244	244	232	146	253	253	253	241	152
	kW	*184*	***184***	*184*	*175*	*110*	*167*	***167***	*167*	*159*	*101*	*195*	***195***	*195*	*186*	*117*	*202*	***202***	*202*	*193*	*122*
TAL 046 D	kVA	240	250	250	238	150	218	228	228	217	137	254	265	265	252	159	264	275	275	262	165
	kW	*192*	***200***	*200*	*190*	*120*	*174*	***182***	*182*	*174*	*110*	*203*	***212***	*212*	*202*	*127*	*211*	***220***	*220*	*210*	*132*
TAL 046 E	kVA	275	275	275	261	165	250	250	250	238	150	292	292	292	277	175	303	303	303	287	182
	kW	*220*	***220***	*220*	*209*	*132*	*200*	***200***	*200*	*190*	*120*	*234*	***234***	*234*	*222*	*140*	*242*	***242***	*242*	*230*	*146*
TAL 046 F	kVA	290	300	300	285	180	264	273	273	259	164	307	318	318	302	191	319	330	330	314	198
	kW	*232*	***240***	*240*	*228*	*144*	*211*	***218***	*218*	*207*	*131*	*246*	***254***	*254*	*242*	*153*	*255*	***264***	*264*	*251*	*158*
TAL 046 G	kVA	325	325	325	309	195	296	296	296	281	177	345	345	345	328	207	360	360	360	340	215
	kW	*260*	***260***	*260*	*247*	*156*	*237*	***237***	*237*	*225*	*142*	*276*	***276***	*276*	*262*	*166*	*288*	***288***	*288*	*272*	*172*
TAL 046 H	kVA	350	365	365	347	210	318	332	332	316	191	371	387	387	368	223	385	400	400	382	231
	kW	*280*	***292***	*292*	*278*	*168*	*254*	***266***	*266*	*253*	*153*	*297*	***310***	*310*	*294*	*178*	*308*	***320***	*320*	*306*	*185*

(*) 12-wire option

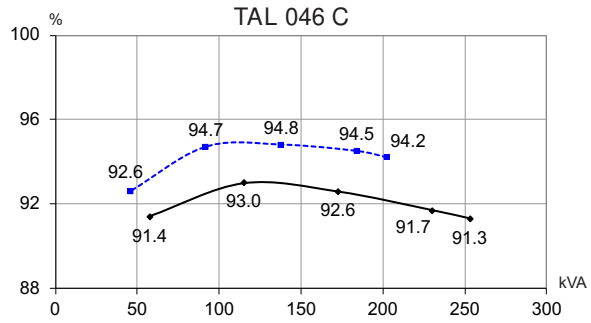
Ratings 60 Hz - 1800 R.P.M.

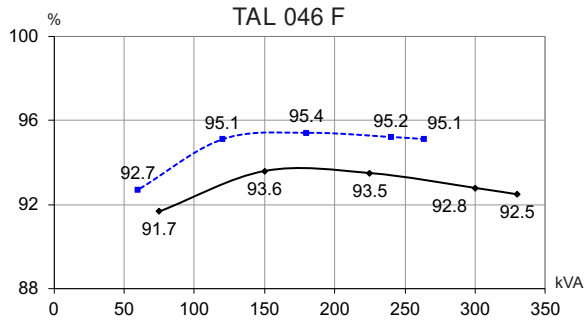
kVA / kW - P.F. = 0.8

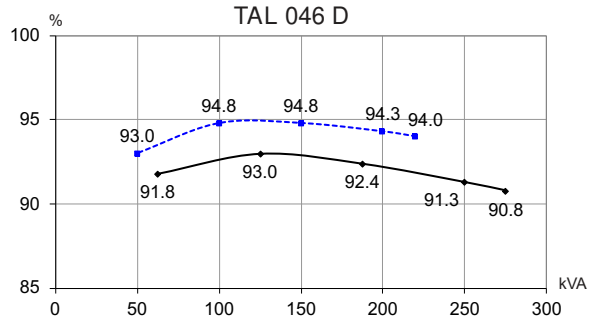
Duty / T° C		Continuous / 40 °C					Continuous / 40 °C					Stand-by / 40 °C					Stand-by / 27 °C				
Class / T° K		H / 125° K					F / 105° K					H / 150° K					H / 163° K				
Phase		3 ph.				1 ph.	3 ph.				1 ph.	3 ph.				1 ph.	3 ph.				1 ph.
Y		380V	416V	440V	480V		380V	416V	440V	480V		380V	416V	440V	480V		380V	416V	440V	480V	
Δ		220V	240V			240V	220V	240V			240V	220V	240V			240V	220V	240V			240V
YY (*)			208V	220V	240V			208V	220V	240V			208V	220V	240V			208V	220V	240V	
ΔΔ (*)						240V					240V					240V					240V
TAL 046 C	kVA	226	250	262	288	152	206	228	238	262	138	240	265	278	305	161	250	275	288	316	167
	kW	*181*	*200*	*210*	***230***	*122*	*165*	*182*	*190*	***210***	*110*	*192*	*212*	*222*	***244***	*129*	*200*	*220*	*230*	***253***	*134*
TAL 046 D	kVA	245	265	280	313	165	223	241	255	285	150	260	281	297	332	175	270	292	308	344	182
	kW	*196*	*212*	*224*	***250***	*132*	*178*	*193*	*204*	***228***	*120*	*208*	*225*	*238*	***266***	*140*	*216*	*234*	*246*	***275***	*146*
TAL 046 E	kVA	275	300	315	344	182	250	273	287	313	166	292	318	334	365	193	303	330	347	378	200
	kW	*220*	*240*	*252*	***275***	*146*	*200*	*218*	*230*	***250***	*133*	*234*	*254*	*267*	***292***	*154*	*242*	*264*	*278*	***302***	*160*
TAL 046 F	kVA	290	315	340	360	200	264	287	309	328	182	307	334	360	382	212	320	347	374	400	220
	kW	*232*	*252*	*272*	***288***	*160*	*211*	*230*	*247*	***262***	*146*	*246*	*267*	*288*	***306***	*170*	*256*	*278*	*299*	***320***	*176*
TAL 046 G	kVA	315	345	365	406	215	287	314	332	369	196	334	366	387	430	228	347	380	402	447	237
	kW	*252*	*276*	*292*	***325***	*172*	*230*	*251*	*266*	***295***	*157*	*267*	*293*	*310*	***344***	*182*	*278*	*304*	*322*	***358***	*190*
TAL 046 H	kVA	345	375	400	438	231	314	341	364	399	210	366	398	424	464	245	380	413	440	480	254
	kW	*276*	*300*	*320*	***350***	*185*	*251*	*273*	*291*	***319***	*168*	*293*	*318*	*339*	***371***	*196*	*304*	*330*	*352*	***384***	*203*

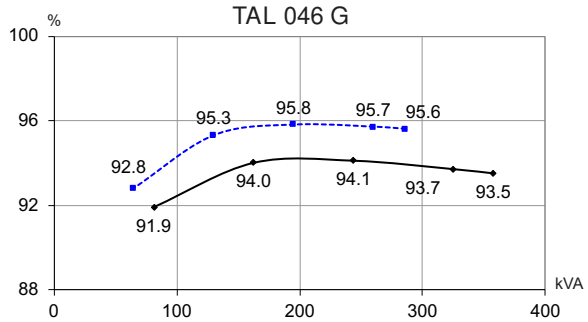
(*) 12-wire option

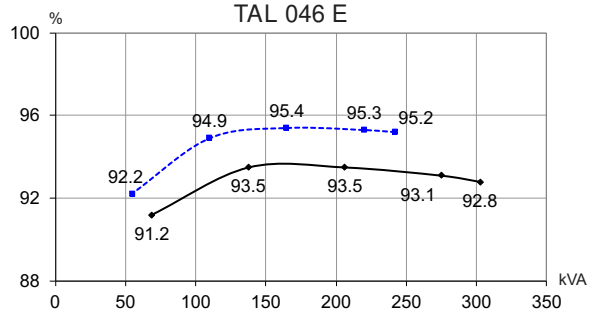
Efficiencies 400 V - 50 Hz (— P.F.: 0.8) (--- P.F.: 1)

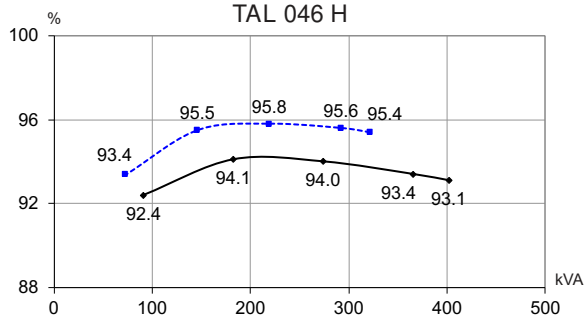












Reactances (%). Time constants (ms) - Class H / 400 V

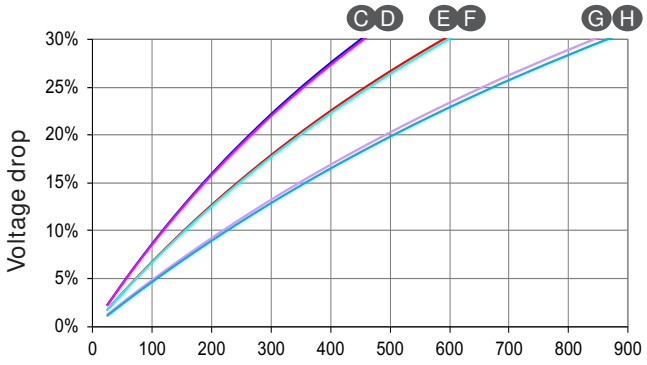
		C	D	E	F	G	H
Kcc	Short-circuit ratio	0.37	0.34	0.49	0.45	0.48	0.43
Xd	Direct-axis synchronous reactance unsaturated	340	370	278	303	270	303
Xq	Quadrature-axis synchronous reactance unsaturated	173	188	142	154	137	154
T'do	No-load transient time constant	1983	1983	2049	2049	2093	2093
X'd	Direct-axis transient reactance saturated	17.1	18.6	13.5	14.8	12.9	14.5
T'd	Short-circuit transient time constant	100	100	100	100	100	100
X"d	Direct-axis subtransient reactance saturated	13.7	14.9	10.8	11.8	10.3	11.6
T"d	Subtransient time constant	10	10	10	10	10	10
X"q	Quadrature-axis subtransient reactance saturated	17.4	18.9	13.5	14.7	12.6	14.2
Xo	Zero sequence reactance	0.71	0.77	0.56	0.61	0.53	0.6
X2	Negative sequence reactance saturated	15.58	16.94	12.19	13.3	11.49	12.9
Ta	Armature time constant	15	15	15	15	15	15

Other class H / 400 V data

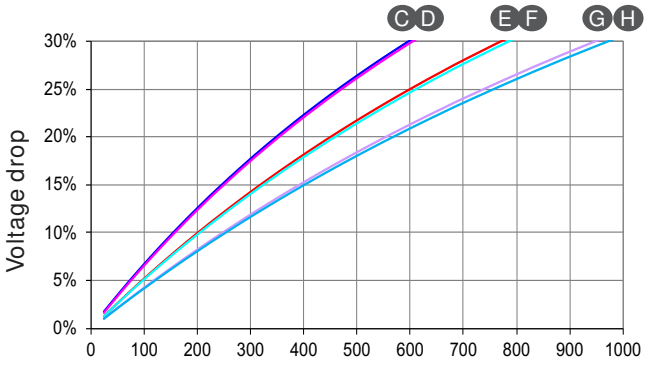
io (A)	No-load excitation current SHUNT/AREP+	1.01	1.01	1.14	1.14	1.06	1.06
ic (A)	On-load excitation current SHUNT/AREP+	3.84	4.14	3.5	3.76	3.3	3.63
uc (V)	On-load excitation voltage SHUNT/AREP+	37.4	40.2	40.6	43.5	38.2	41.9
ms	Response time (ΔU = 20% transient)	500	500	500	500	500	500
kVA	Start (ΔU = 20% cont. or ΔU = 30% trans.) SHUNT*	372	371	496	495	742	741
kVA	Start (ΔU = 20% cont. or ΔU = 30% trans.) AREP+*	524	525	687	688	856	854
%	Transient ΔU (on-load 4/4) SHUNT - P.F.: 0.8 $_{LAG}$	18	19.1	16.7	17.7	14.2	15.4
%	Transient ΔU (on-load 4/4) AREP+ - P.F.: 0.8 $_{LAG}$	14.2	15	13.3	14.1	12.8	13.9
W	No-load losses	3299	3299	4328	4328	4750	4750
W	Heat dissipation	16579	18888	16242	18374	17367	20482

* P.F. = 0.6

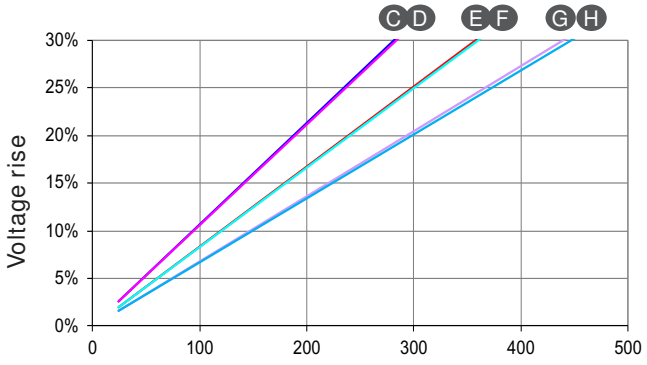
Transient voltage variation 400 V - 50 Hz



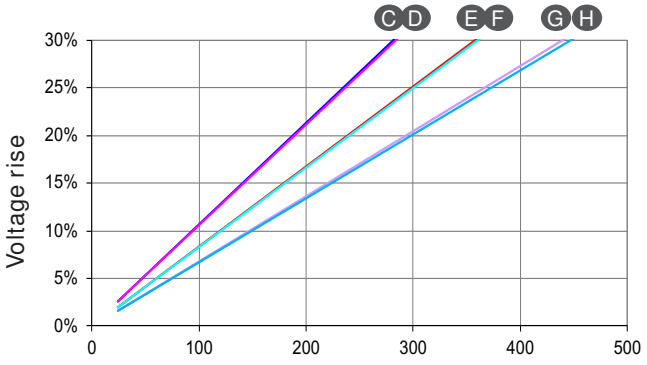
Phase loading (SHUNT) - kVA at P.F. = 0.8



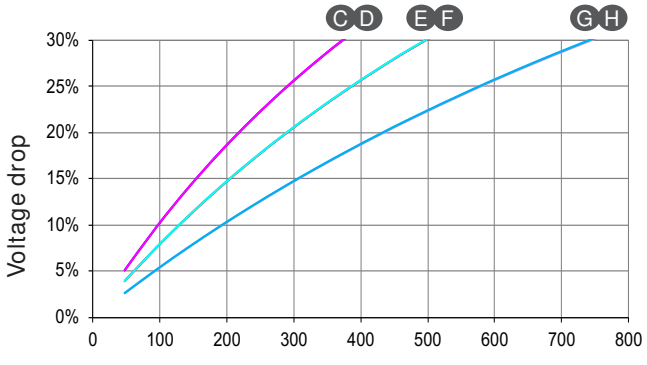
Phase loading (AREP+/PMG) - kVA at P.F. = 0.8



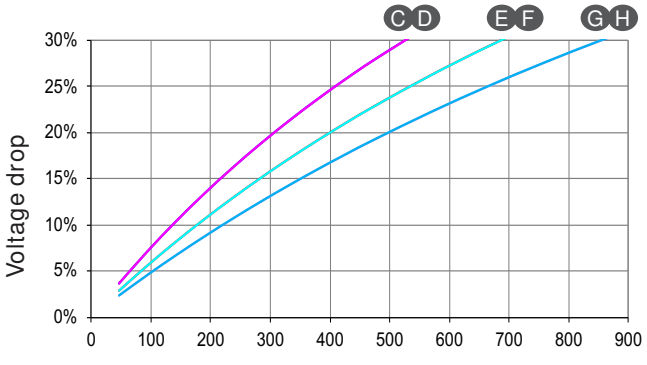
Load shedding (SHUNT) - kVA at P.F. = 0.8



Load shedding (AREP+/PMG) - kVA at P.F. = 0.8



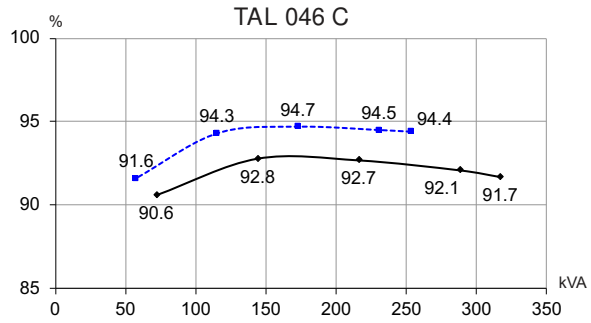
Motor starting (SHUNT)
Locked rotor kVA at P.F. = 0.6

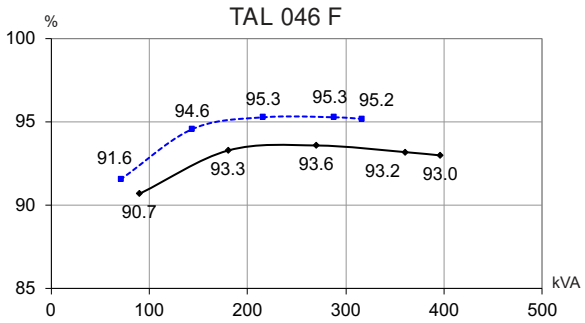


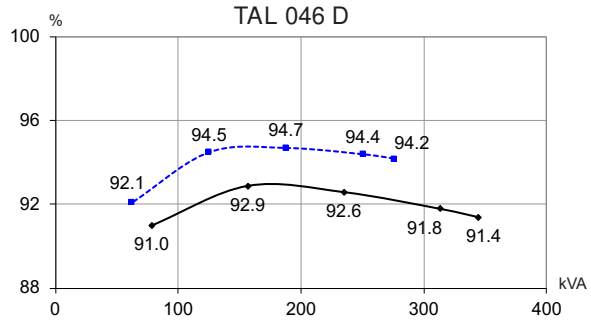
Motor starting (AREP+/PMG)
Locked rotor kVA at P.F. = 0.6

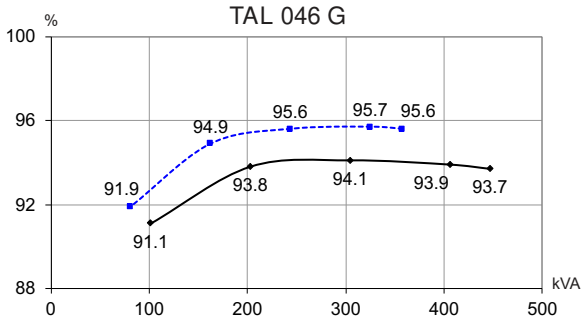
1) For a starting P.F. other than 0.6, the starting kVA must be multiplied by K = Sine P.F. / 0.8
2) For voltages other than 400V (Y), 230V (Δ) at 50 Hz, then kVA must be multiplied by $(400/U)^2$ or $(230/U)^2$.

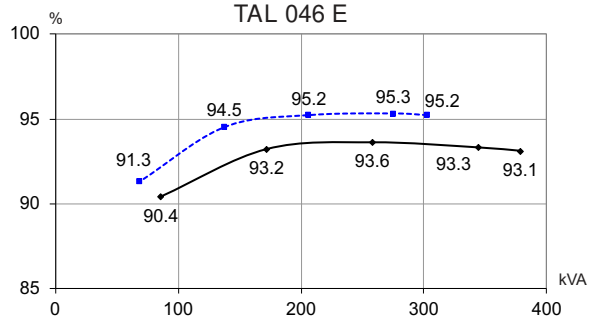
Efficiencies 480 V - 60 Hz (— P.F.: 0.8) (--- P.F.: 1)

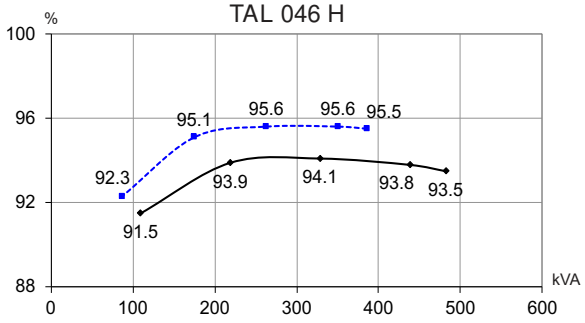












Reactances (%). Time constants (ms) - Class H / 480 V

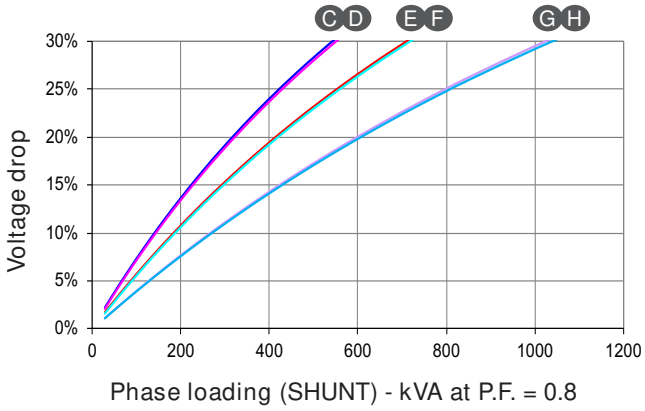
		C	D	E	F	G	H
Kcc	Short-circuit ratio	0.36	0.33	0.47	0.45	0.46	0.43
Xd	Direct-axis synchronous reactance unsaturated	355	386	290	303	281	303
Xq	Quadrature-axis synchronous reactance unsaturated	181	197	148	154	143	154
T'do	No-load transient time constant	1983	1983	2049	2049	2093	2093
X'd	Direct-axis transient reactance saturated	17.9	19.4	14.1	14.8	13.4	14.5
T'd	Short-circuit transient time constant	100	100	100	100	100	100
X"d	Direct-axis subtransient reactance saturated	14.3	15.5	11.3	11.8	10.7	11.6
T"d	Subtransient time constant	10	10	10	10	10	10
X"q	Quadrature-axis subtransient reactance saturated	18.1	19.7	14	14.7	13.1	14.2
Xo	Zero sequence reactance	0.74	0.81	0.59	0.61	0.56	0.6
X2	Negative sequence reactance saturated	16.26	17.67	12.71	13.3	11.96	12.9
Ta	Armature time constant	15	15	15	15	15	15

Other class H / 480 V data

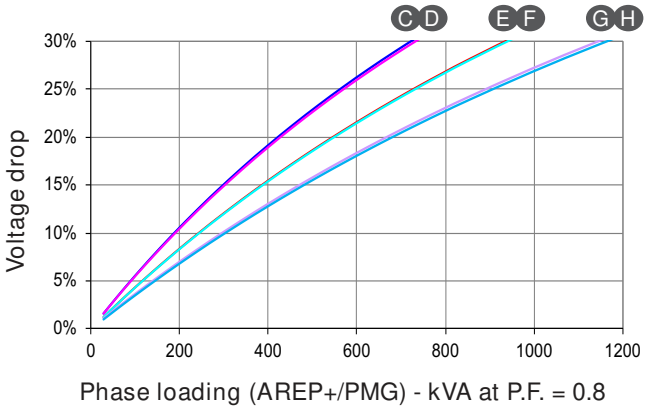
io (A)	No-load excitation current SHUNT/AREP+	1.01	1.01	1.14	1.14	1.06	1.06
ic (A)	On-load excitation current SHUNT/AREP+	3.91	4.21	3.56	3.69	3.35	3.56
uc (V)	On-load excitation voltage SHUNT/AREP+	38.3	41.1	41.5	43	38.9	41.3
ms	Response time (ΔU = 20% transient)	500	500	500	500	500	500
kVA	Start (ΔU = 20% cont. or ΔU = 30% trans.) SHUNT*	446	448	594	593	888	889
kVA	Start (ΔU = 20% cont. or ΔU = 30% trans.) AREP+*	627	629	828	826	1024	1025
%	Transient ΔU (on-load 4/4) SHUNT - P.F.: 0.8 $_{LAG}$	18.5	19.6	17.2	17.7	14.6	15.4
%	Transient ΔU (on-load 4/4) AREP+ - P.F.: 0.8 $_{LAG}$	14.6	15.5	13.7	14.1	13.2	13.9
W	No-load losses	4960	4960	6365	6365	6978	6978
W	Heat dissipation	19692	22264	19530	20731	20941	23137

* P.F. = 0.6

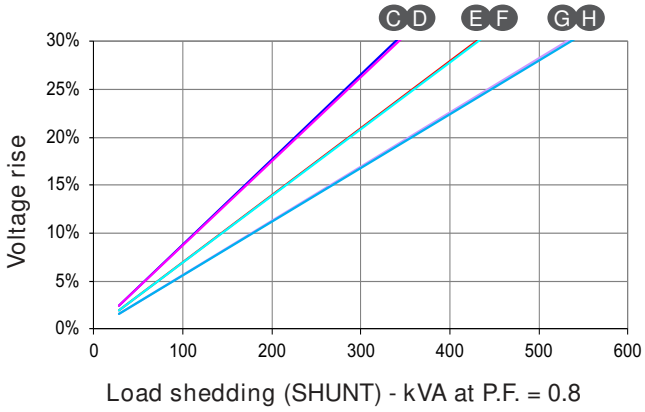
Transient voltage variation 480 V - 60 Hz



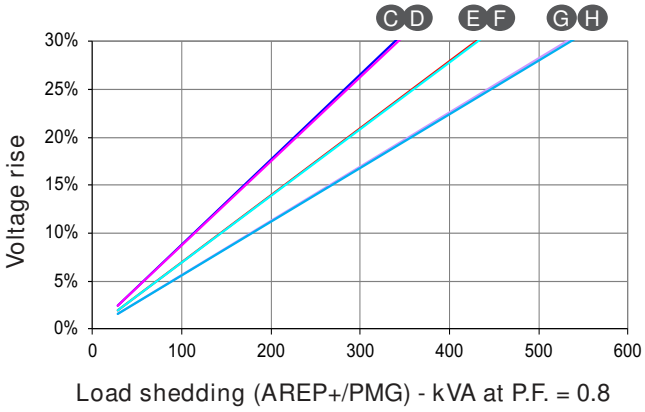
Phase loading (SHUNT) - kVA at P.F. = 0.8



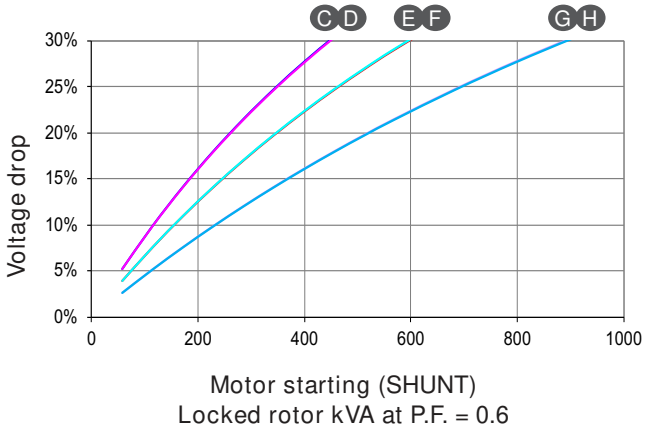
Phase loading (AREP+/PMG) - kVA at P.F. = 0.8



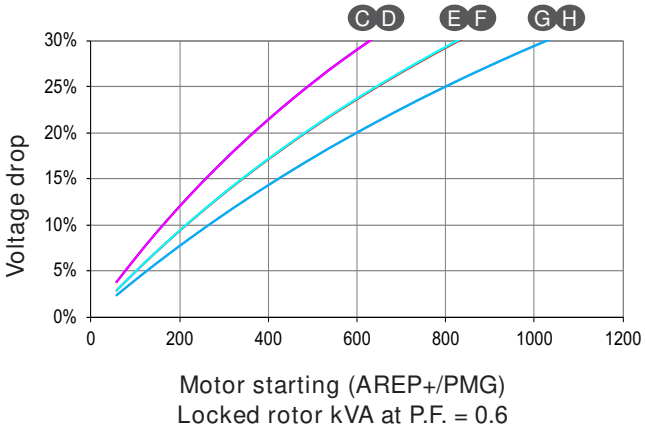
Load shedding (SHUNT) - kVA at P.F. = 0.8



Load shedding (AREP+/PMG) - kVA at P.F. = 0.8



Motor starting (SHUNT)
Locked rotor kVA at P.F. = 0.6



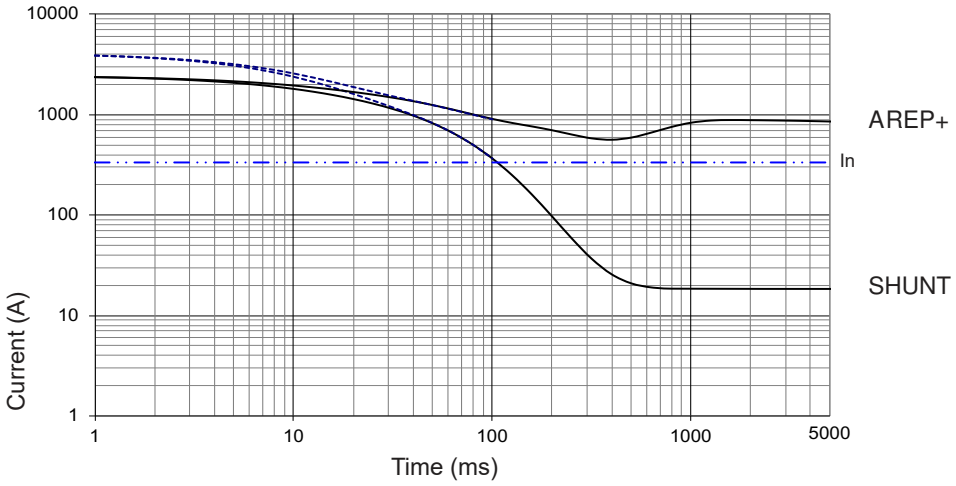
Motor starting (AREP+/PMG)
Locked rotor kVA at P.F. = 0.6

1) For a starting P.F. other than 0.6, the starting kVA must be multiplied by K = Sine P.F. / 0.8
2) For voltages other than 480V (Y), 277V (Δ), 240V (YY) at 60 Hz, then kVA must be multiplied by $(480/U)^2$ or $(277/U)^2$ or $(240/U)^2$.

3-phase short-circuit curves at no load and rated speed (star connection Y)

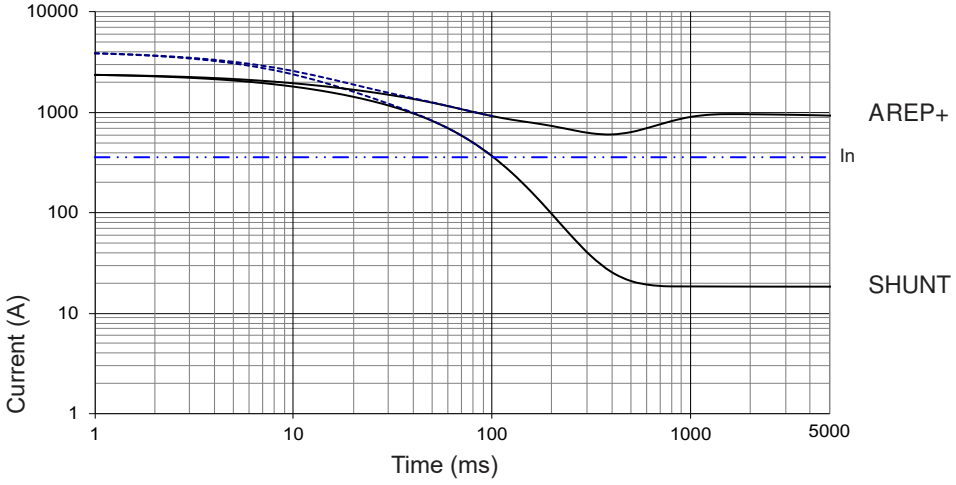
TAL 046 C

Symmetrical ——
Asymmetrical - - -



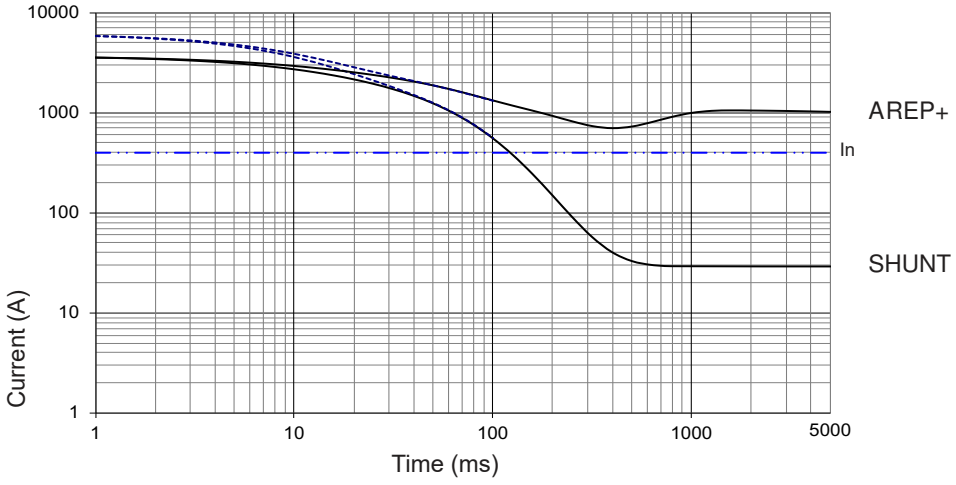
TAL 046 D

Symmetrical ——
Asymmetrical - - -



TAL 046 E

Symmetrical ——
Asymmetrical - - -

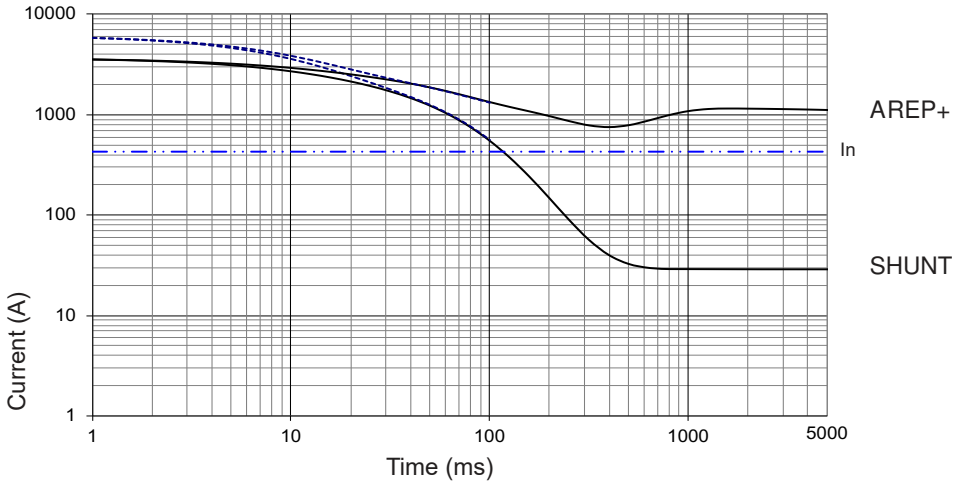


Influence due to connection
For (Δ) connection, use the following multiplication factor:
- Current value x 1.732.

3-phase short-circuit curves at no load and rated speed (star connection Y)

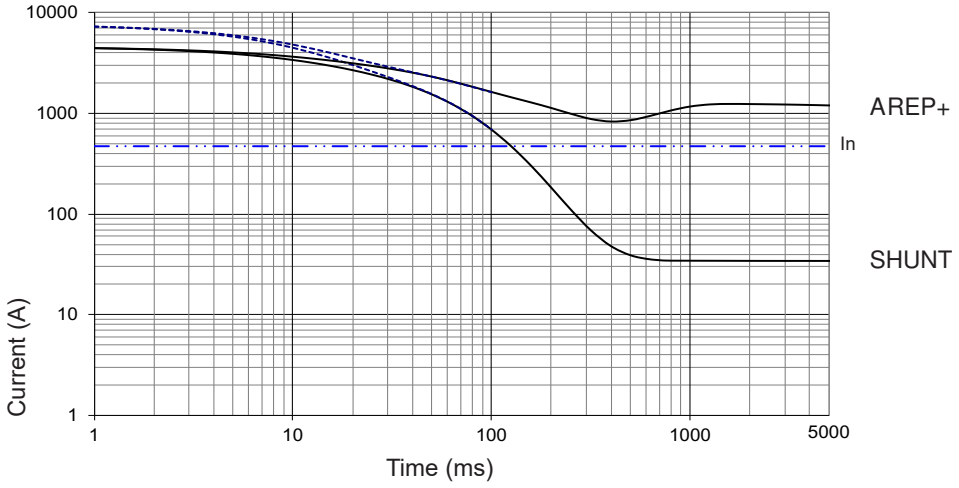
TAL 046 F

Symmetrical ——
Asymmetrical - - -



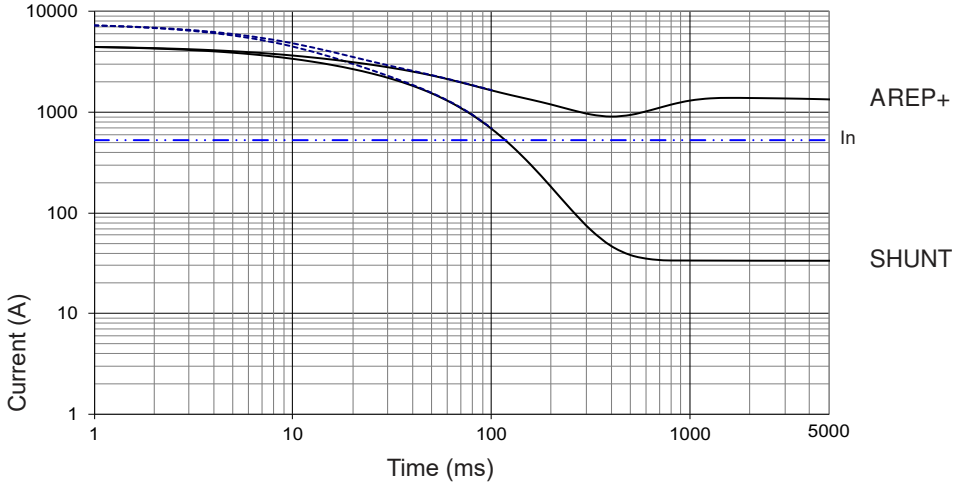
TAL 046 G

Symmetrical ——
Asymmetrical - - -



TAL 046 H

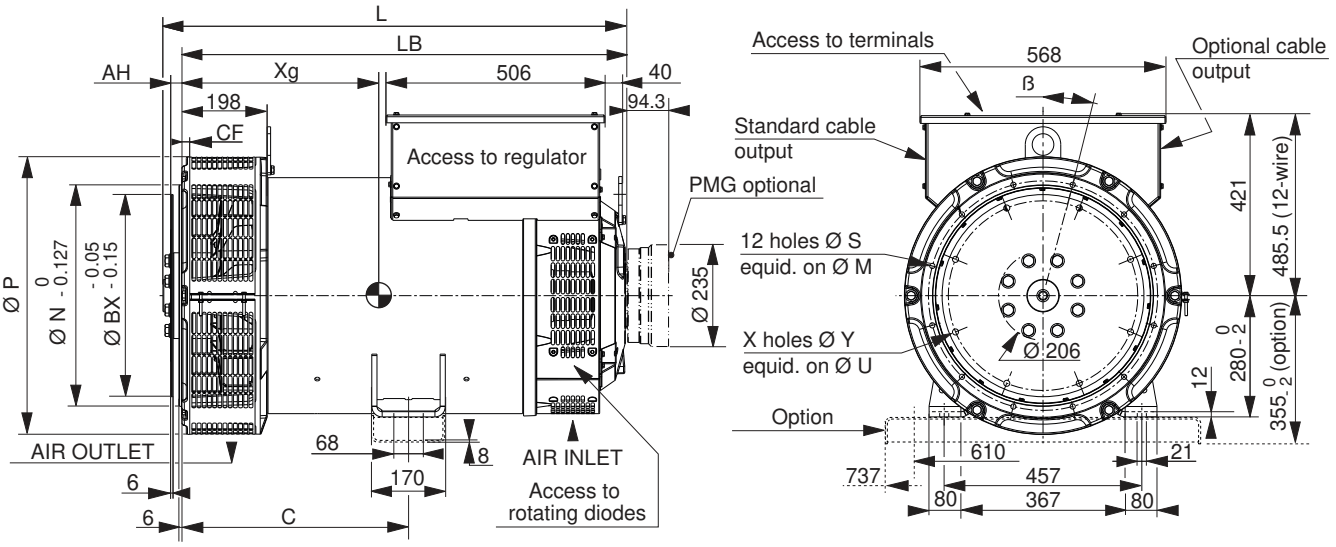
Symmetrical ——
Asymmetrical - - -



Influence due to short-circuit
Curves are based on a three-phase short-circuit.
For other types of short-circuit,
use the following multiplication factors.

	3 - phase	2 - phase L / L	1 - phase L / N
Instantaneous (max.)	1	0.87	1.3
Continuous	1	1.5	2.2
Maximum duration (AREP+/PMG)		1.5	

Single-bearing dimensions



Dimensions (mm) and weight					
Type	L without PMG maxi*	LB	Xg	C	Weight (kg)
TAL 046 C	944	892	423	429	599
TAL 046 D	944	892	423	429	607
TAL 046 E	989	937	445	429	754
TAL 046 F	989	937	445	429	754
TAL 046 G**	1084	1032	493	525	888
TAL 046 H**	1084	1032	493	525	888

* L maxi = LB + AH maxi + 12.4 (only for SAE 11 ½) ** Shaft height = 355 mm optional

Coupling			
Flex plate	11 ½	14	18
Flange S.A.E 3	X		
Flange S.A.E 2	X		
Flange S.A.E 1	X	X	
Flange S.A.E ½		X	
Flange S.A.E 0		X	X

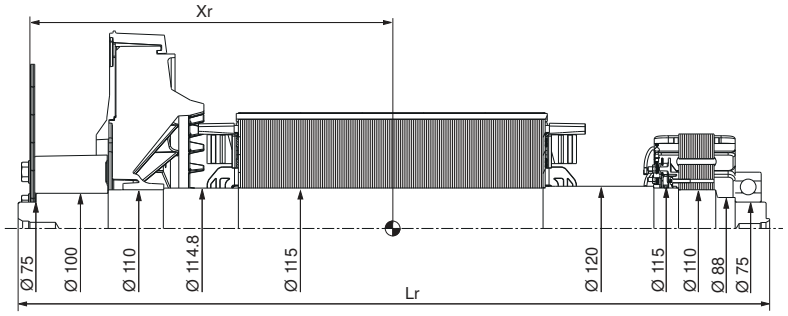
Flange (mm)						
S.A.E.	P	N	M	S	ß°	CF
3	600*/641	409.575	428.625	11	15°	10
2	600*/641	447.675	466.725	11	15°	10
1	600*/641	511.175	530.225	12	15°	10
½	713	584.2	619.125	14	15°	6
0	713	647.7	679.45	14	11° 15'	19

* Specific dimension TAL 046 C

Flex plate (mm)					
S.A.E.	BX	U	X	Y	AH
11 ½	352.42	333.38	8	11	39.6
14	466.72	438.15	8	14	25.4
18*	571.5	542.92	6	17	15.7

* Option

Torsional analysis data



Centre of gravity: Xr (mm), Rotor length: Lr (mm), Weight: M (kg), Moment of inertia: J (kgm²): (4J = MD²)								
Flex plate	S.A.E. 11 ½				S.A.E. 14			
Type	Xr	Lr	M	J	Xr	Lr	M	J
TAL 046 C	420	923	255	2.64	408	923	256	2.8
TAL 046 D	420	923	255	2.64	408	923	256	2.8
TAL 046 E	460	968	304	3.28	448	968	305	3.44
TAL 046 F	460	968	304	3.28	448	968	305	3.44
TAL 046 G	508	1063	358	3.97	497	1063	359	4.13
TAL 046 H	508	1063	358	3.97	497	1063	359	4.13

NOTE : Dimensions are for information only and may be subject to modifications. The torsional analysis of the transmission is imperative. All values are available upon request.

Nidec

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TAL A46
180 - 512 kVA

DATA SHEET



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 (m^3/s)	**50Hz :** 0.48	**Waveform: I.E.C. = THF (**)**	< 2%
	60Hz : 0.58	(*) Steady state (**) Total harmonic distortion between phases, no-load or on-load (non-distorting)	

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

kVA / kW - P.F. = 0.8

TAL A46	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-A46-A	180	**180**	180	200	**200**	200	180	195	210	**225**	200	215	230	**250**
TAL-A46-B	200	**200**	200	220	**220**	220	200	215	230	**250**	220	237	253	**275**
TAL-A46-C	230	**230**	230	253	**253**	253	226	250	262	**288**	250	275	288	**316**
TAL-A46-D	240	**250**	250	264	**275**	275	245	265	280	**313**	270	292	308	**344**
TAL-A46-E	275	**275**	275	303	**303**	305	275	300	315	**344**	303	330	347	**378**
TAL-A46-F	290	**300**	300	320	**330**	330	290	315	340	**375**	320	347	374	**413**
TAL-A46-G	325	**325**	325	360	**360**	360	315	345	365	**406**	347	380	402	**447**
TAL-A46-H	350	**365**	365	385	**400**	400	345	375	400	**455**	380	413	440	**500**
TAL-A46-J	400	**410**	410	440	**450**	450	450	480	500	**512**	500	530	550	**581**

Leroy-Somer™

TAL A46
180 - 512 kVA

Efficiencies (%)

Class H / 40 ° C

Three Phase: 400 V - 50 Hz

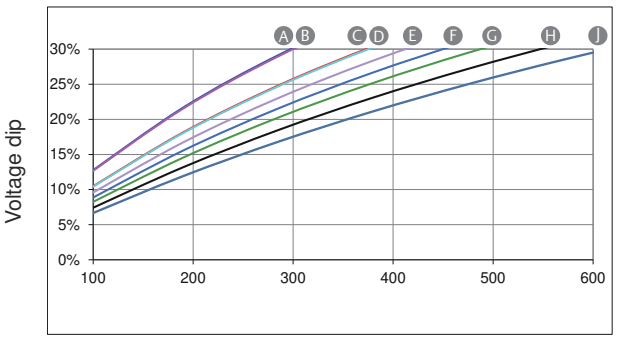
	P.F. = 0.8					P.F. = 1				
	1/4	2/4	3/4	4/4	St.By	1/4	2/4	3/4	4/4	St.By
TAL-A46-A	89.9	92.4	92.3	91.7	91.4	91.1	94.1	94.6	94.4	94.2
TAL-A46-B	90.5	92.4	92.2	91.3	90.9	91.8	94.3	94.5	94.2	94.0
TAL-A46-C	91.4	92.9	92.5	91.5	91.1	92.6	94.7	94.8	94.4	94.1
TAL-A46-D	91.7	92.9	92.3	91.2	90.7	93.0	94.8	94.7	94.2	93.9
TAL-A46-E	92.2	93.7	93.3	92.5	92.1	93.3	95.2	95.3	95.0	94.8
TAL-A46-F	92.1	93.6	93.3	92.5	92.2	93.2	95.2	95.4	95.0	94.8
TAL-A46-G	92.1	93.9	93.8	93.2	92.9	93.0	95.3	95.6	95.4	95.3
TAL-A46-H	92.5	94.2	94.1	93.5	93.2	93.4	95.6	95.8	95.6	95.5
TAL-A46-J	92.8	94.6	94.6	94.1	93.9	93.6	95.7	96.1	96	95.9

Three Phase: 480 V - 60 Hz

	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
TAL-A46-A	88.9	92.1	92.4	92.0	91.8	89.9	93.5	94.3	94.4	94.3
TAL-A46-B	89.6	92.3	92.3	91.7	91.4	90.6	93.8	94.4	94.3	94.1
TAL-A46-C	90.6	92.8	92.6	91.9	91.6	91.6	94.3	94.7	94.4	94.3
TAL-A46-D	91.0	92.8	92.5	91.6	91.2	92.1	94.4	94.6	94.3	94.1
TAL-A46-E	91.5	93.5	93.5	92.8	92.5	92.3	94.9	95.2	95.0	94.9
TAL-A46-F	91.2	93.5	93.5	93.0	92.7	92.1	94.8	95.3	95.1	95.0
TAL-A46-G	91.3	93.7	93.9	93.5	93.2	92.1	94.9	95.5	95.4	95.3
TAL-A46-H	91.6	94.0	94.2	93.9	93.7	92.4	95.1	95.7	95.7	95.6
TAL-A46-J	92.1	94.4	94.6	94.3	94.1	92.7	95.4	96	96	95.9

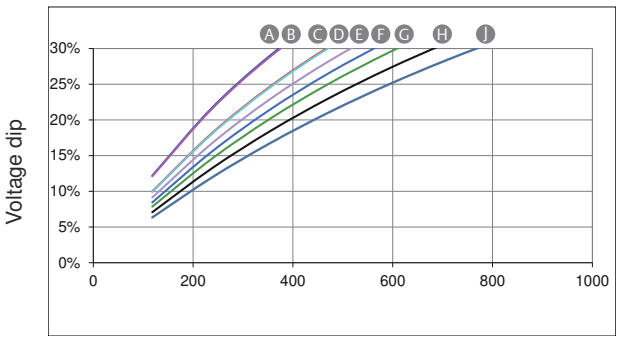
Transient Voltage Variation – Motor Starting

400V - 50 Hz



KVA at P.F=0.6

480V - 60 Hz



KVA at P.F=0.6

Locked Rotor – kVA at Ø 0.6 Power Factor

Leroy-Somer™