

TAL 044

Low Voltage Alternator - 4 pole

Three-phase 70 to 165 kVA - 50 Hz / 88 to 206 kVA - 60 Hz
Dedicated single-phase 57 to 82 kVA - 50 Hz / 80 to 125 kVA - 60 Hz
Electrical and mechanical data

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TAL 044 - Three-phase & Single-phase

Adapted to needs

The TAL alternator range is designed to meet the needs of general applications such as prime power and stand-by.

Compliant with international standards

The TAL range complies with international standards and regulations: IEC 60034 and derivative.

The range is designed, manufactured and marketed in an ISO 9001 and 14001 environment.

Electrical design

- Class H insulation
- Shunt excitation
- Low voltage winding:
 - Three-phase 50 Hz: 380V - 400V - 415V - 440V / 220V - 230V - 240V
 - 60 Hz: 380V - 416V - 440V - 480V / 220V - 208V - 240V
 - Single-phase 50 Hz: 115V - 230V
 - 60 Hz: 120V - 240V
- 4-terminal plates in 6-wire version
- Optimized performance

Robust design

- Compact and rugged assembly to withstand engine vibrations
- Steel frame
- Aluminum flanges and shields
- Single bearing design compatible with most diesel engines
- Sealed for life single bearing
- Direction of rotation: clockwise and counterclockwise without derating



Excitation and regulation system suited to the application

	Excitation system				Regulation options		
	AVR	Shunt	AREP	PMG	ULc/us	Remote voltage potentiometer	C.T. for paralleling
Three-phase 6-wire	R120	Standard					
	R150	Option				√	
	R180		Standard	Standard		√	√
	R438		Option	Option	√	√	√
Three-phase 12-wire	R120	Standard					
	R250	Option			√	√	
	R180		Standard	Standard		√	√
	R438		Option	Option	√	√	√
Single-phase	R121	Standard				√	
	R250	Option			√	√	

√ : Possible option

Compact terminal box

- Easy access to AVR and terminals

Environment and protection

- IP Code IP 23
- Standard winding protection for non-harsh environment with relative humidity ≤ 95%

Available options

- Three-phase 12-wire with 8-terminal plates
- Excitation AREP & PMG with auxiliary winding
- ULc/us
- Customized painting (machine not painted as standard)
- Space heaters
- Flying leads
- Droop kit for alternator paralleling
- Dedicated single-phase
- Stator sensors
- Winding 8 optimized for three-phase 380V / 416V - 60Hz
- Winding protection for harsh environments and relative humidity greater than 95% (system 2 - 4 without derating): for TAL 044 K apply a derating coefficient of 0.97

TAL 044 - Three-phase 70 to 165 kVA - 50 Hz / 88 to 206 kVA - 60 Hz

General characteristics

Insulation class	H	Excitation system 6-wire	SHUNT	AREP
Winding pitch	2/3 (wind.6S - 6-wire / wind.6 - 12-wire)	AVR type	R120	R180
Number of wires	6-wire (12-wire option)	Excitation system 12-wire (option)	SHUNT	AREP
Protection	IP 23	AVR type	R120	R180
Altitude	≤ 1000 m	Voltage regulation (*)	± 1 %	
Overspeed	2250 R.P.M.	Total Harmonic Distortion THD (**) in no-load	< 2 %	
Air flow 50 Hz (m³/s)	0.25	Total Harmonic Distortion THD (**) in linear load	< 5 %	
Air flow 60 Hz (m³/s)	0.30	Waveform: NEMA = TIF (**)	< 50	
AREP Short-circuit current = 2.7 In : 5 second		Waveform: I.E.C. = FHT (**)	< 2%	

(*) 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 (*)					220V					220V					220V					220V	
ΔΔ (*)					230V					230V					230V					230V	
TAL 044 A	kVA	70	70	70	63	42	64	64	64	57	38	74	74	74	66	45	77	77	77	69	46
	kW	56	56	56	50	33.5	51	51	51	46	30.5	59	59	59	53	36	62	62	62	55	37
TAL 044 B	kVA	80	80	80	72	48	73	73	73	66	44	85	85	85	76	51	88	88	88	79	53
	kW	64	64	64	58	38.5	58	58	58	53	35	68	68	68	61	41	70	70	70	63	42
TAL 044 C	kVA	90	90	90	81	54	82	82	82	74	49	95	95	95	85	57	100	100	100	89	59
	kW	72	72	72	65	43	66	66	66	59	39	76	76	76	68	46	80	80	80	71	47
TAL 044 D	kVA	100	100	100	90	60	91	91	91	82	55	106	106	106	95	64	110	110	110	99	66
	kW	80	80	80	72	48	73	73	73	66	44	85	85	85	76	51	88	88	88	79	53
TAL 044 E	kVA	125	125	125	113	67	114	114	114	102	61	133	133	133	118	71	138	138	138	124	74
	kW	100	100	100	90	54	91	91	91	82	49	106	106	106	94	57	110	110	110	99	59
TAL 044 H	kVA	135	135	135	122	73	123	123	123	111	66	143	143	143	128	77	150	150	150	134	80
	kW	108	108	108	98	58	98	98	98	89	53	114	114	114	102	62	120	120	120	107	64
TAL 044 J	kVA	150	150	150	135	80	137	137	137	123	73	159	159	159	142	85	165	165	165	149	88
	kW	120	120	120	108	64	110	110	110	98	58	127	127	127	114	68	132	132	132	119	70
TAL 044 K	kVA	165	165	165	138	88	150	150	150	125	80	175	175	175	150	93	181	181	181	157	97
	kW	132	132	132	110	70	120	120	120	100	64	140	140	140	120	74	145	145	145	126	78

(*) 12-wire option

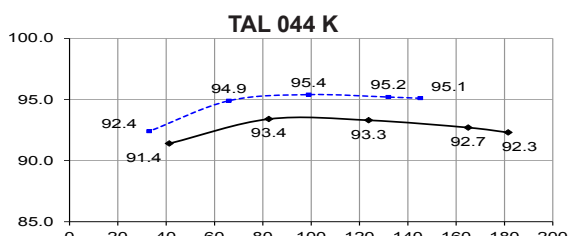
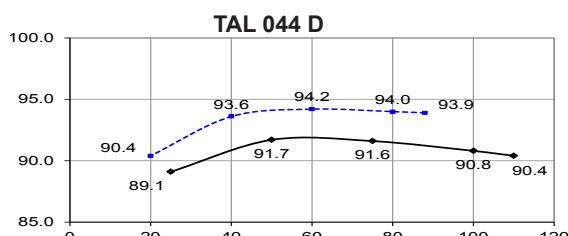
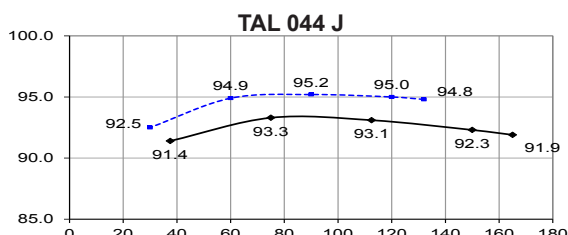
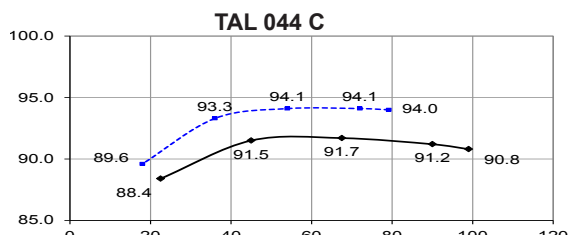
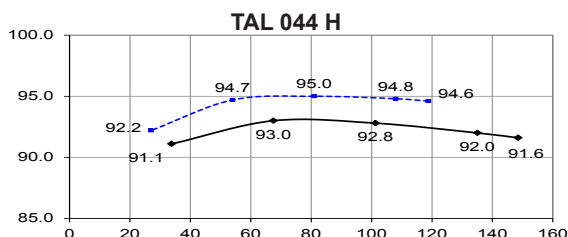
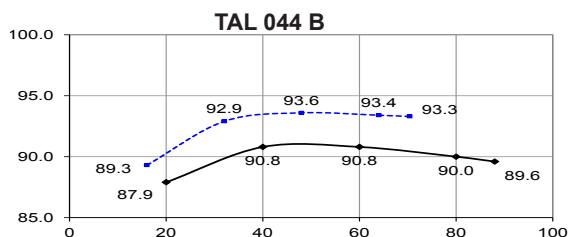
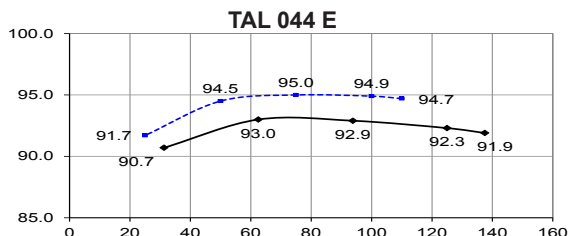
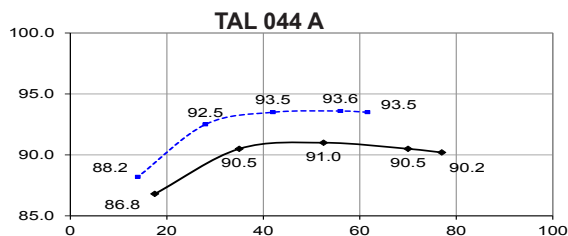
Ratings 60 Hz - 1800 R.P.M.

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 (*)					240V					240V					240V					240V	
ΔΔ (*)					240V					240V					240V					240V	
TAL 044 A	kVA	69	76	80	88	46	63	69	73	80	42	73	81	85	93	49	76	84	88	97	51
	kW	55	61	64	70	37	50	55	58	64	33.6	58	65	68	74	39.2	61	67	70	78	41
TAL 044 B	kVA	79	87	92	100	52	72	79	84	91	47	84	92	98	106	55	87	96	101	110	57
	kW	63	70	74	80	42	58	63	67	73	37.6	67	74	78	85	44	70	77	81	88	46
TAL 044 C	kVA	89	98	103	113	59	81	89	94	103	54	94	104	109	120	63	98	108	113	124	65
	kW	71	78	82	90	47	65	71	75	82	43	75	83	87	96	50	78	86	90	99	52
TAL 044 D	kVA	99	108	115	125	65	90	98	105	114	59	105	114	122	133	69	109	119	127	138	72
	kW	79	86	92	100	52	72	78	84	91	47	84	91	98	106	55	87	95	102	110	58
TAL 044 E	kVA	124	135	143	156	76	113	123	130	142	69	131	143	152	165	81	136	149	157	172	84
	kW	99	108	114	125	61	90	98	104	114	55	105	114	122	132	65	109	119	126	138	67
TAL 044 H	kVA	134	146	155	169	81	122	133	141	154	74	142	155	164	179	86	147	161	171	186	89
	kW	107	117	124	135	65	98	106	113	123	59	114	124	131	143	69	118	129	137	149	71
TAL 044 J	kVA	148	163	172	188	95	135	148	157	171	86	157	173	182	199	101	163	179	189	207	105
	kW	118	130	138	150	76	108	118	126	137	69	126	138	146	159	81	130	143	151	166	84
TAL 044 K	kVA	165	179	189	206	105	148	163	172	187	96	173	190	200	218	111	179	197	208	227	116
	kW	132	143	151	165	84	118	130	138	150	77	138	152	160	174	89	143	158	166	182	93

(*) 12-wire option

TAL 044 - Three-phase 70 to 165 kVA - 50 Hz / 88 to 206 kVA - 60 Hz

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



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

	A	B	C	D	E	H	J	K
Kcc Short-circuit ratio	0.57	0.5	0.53	0.48	0.43	0.4	0.4	0.42
Xd Direct-axis synchro. reactance unsaturated	294	336	307	341	334	361	359	343
Xq Quadrature-axis synchro. reactance unsaturated	150	171	156	174	170	184	183	175
T'do No-load transient time constant	2475	2475	2308	2308	2154	2154	2112	2077
X'd Direct-axis transient reactance saturated	11.9	13.6	13.3	14.7	15.5	16.7	17	16.5
T'd Short-circuit transient time constant	100	100	100	100	100	100	100	100
X''d Direct-axis subtransient reactance saturated	7.1	8.1	7.9	8.8	9.3	10	10.2	9.9
T''d Subtransient time constant	10	10	10	10	10	10	10	10
X''q Quadrature-axis subtransient reactance saturated	16.1	18.3	17	18.9	18.9	20.4	20.4	19.5
Xo Zero sequence reactance	0.49	0.56	0.55	0.61	0.64	0.69	0.7	0.68
X2 Negative sequence reactance saturated	11.62	13.28	12.53	13.92	14.12	15.25	15.31	14.74
Ta Armature time constant	15	15	15	15	15	15	15	15

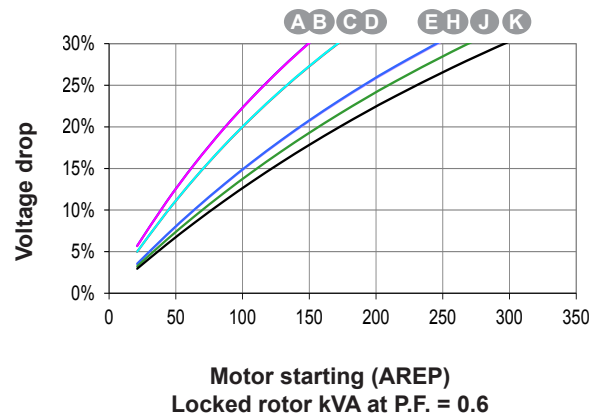
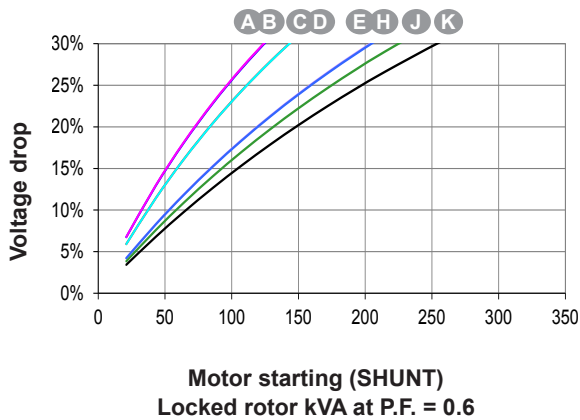
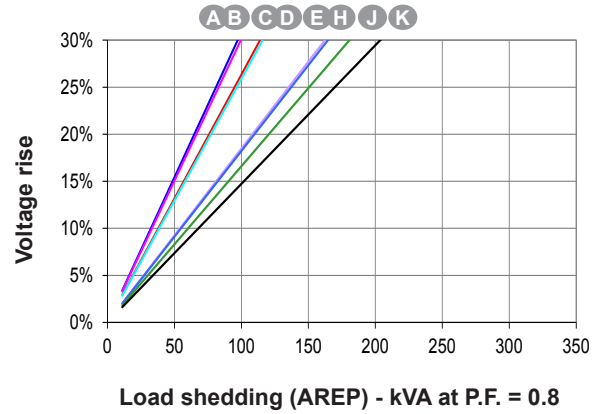
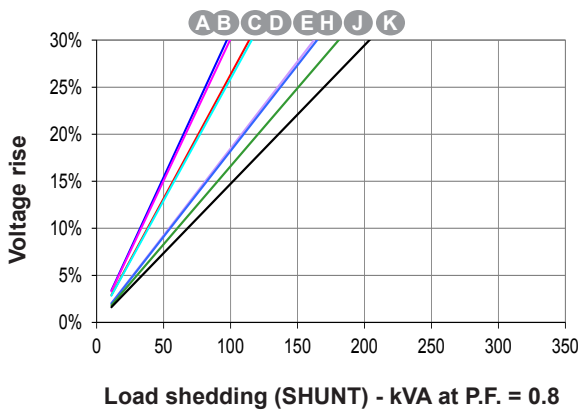
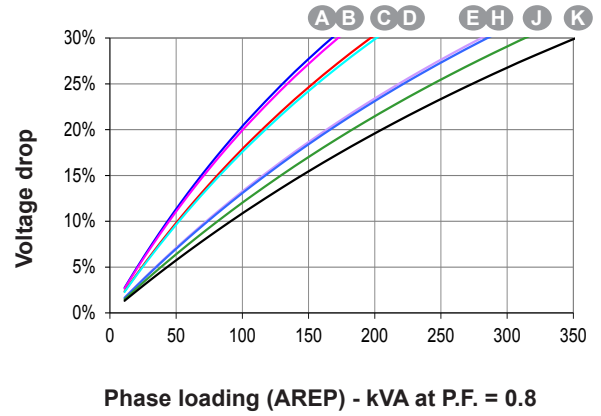
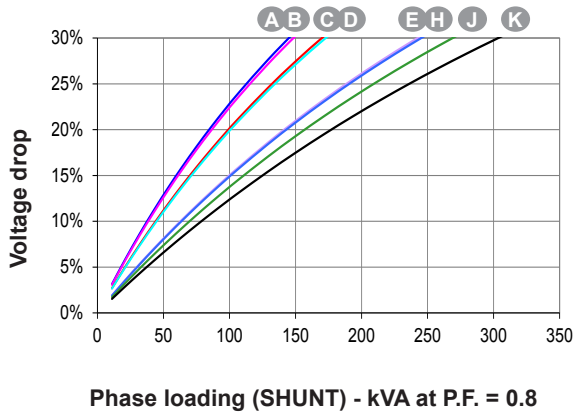
Other class H / 400 V data

io (A) No-load excitation current SHUNT and AREP	0.84/1.08	0.84/1.08	0.8/1.03	0.8/1.03	0.67/0.87	0.67/0.87	0.66/0.85	0.68/0.88
ic (A) On-load excitation current SHUNT and AREP	2.6/3.35	2.95/3.8	2.75/3.54	3.08/3.96	2.57/3.31	2.78/3.59	2.79/3.6	2.82/3.63
uc (V) On-load excitation voltage SHUNT and AREP	28.9/23.2	32.5/26.1	30.1/24.1	33.2/26.7	31.9/25.6	34.3/27.5	34.1/27.4	34.1/27.4
ms Response time ($\Delta U = 20\%$ transient)	500	500	500	500	500	500	500	500
kVA Start ($\Delta U = 20\%$ cont. or $\Delta U = 30\%$ trans.) SHUNT*	124.4	123.9	143.1	143.2	204	204.8	224.9	253.8
kVA Start ($\Delta U = 20\%$ cont. or $\Delta U = 30\%$ trans.) AREP*	149.2	149.4	171.4	171.2	246.2	245.1	269.1	296.2
% Transient ΔU (on-load 4/4) SHUNT - P.F.: 0.8 _{LAG}	17.2	18.8	18.5	19.9	18.2	19.1	19.3	18.9
% Transient ΔU (on-load 4/4) AREP - P.F.: 0.8 _{LAG}	15.2	16.6	16.4	17.6	16.1	16.9	17.1	16.7
W No-load losses	1943	1943	2142	2142	2292	2292	2450	2755
W Heat dissipation	5845	7033	6927	8059	8323	9340	9913	10366

* P.F. = 0.6

TAL 044 - Three-phase 70 to 165 kVA - 50 Hz / 88 to 206 kVA - 60 Hz

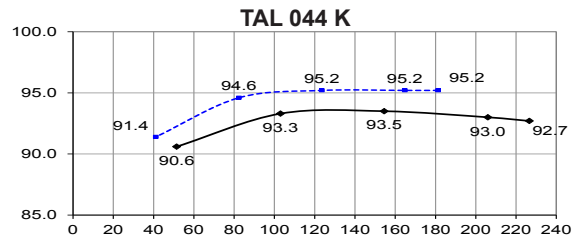
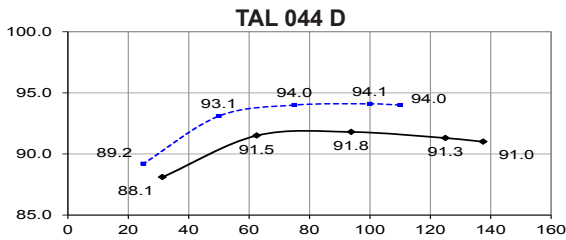
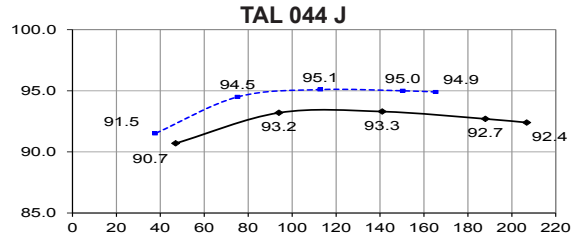
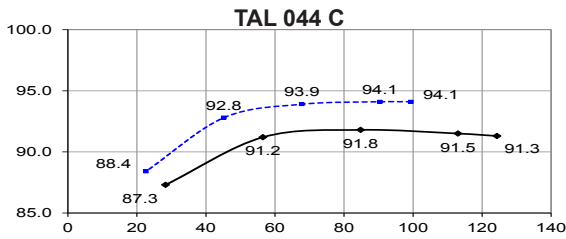
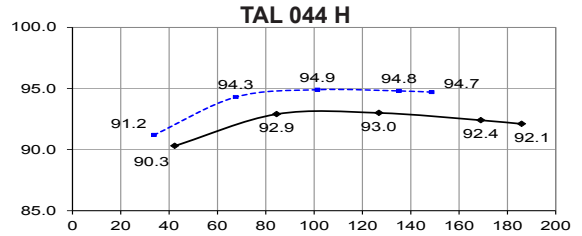
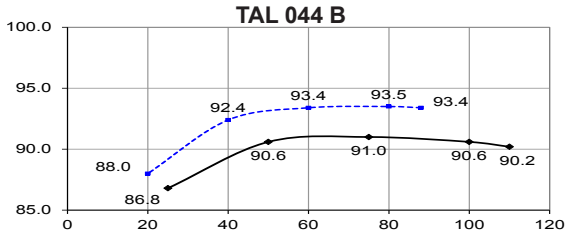
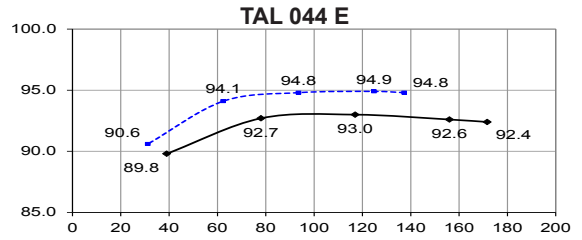
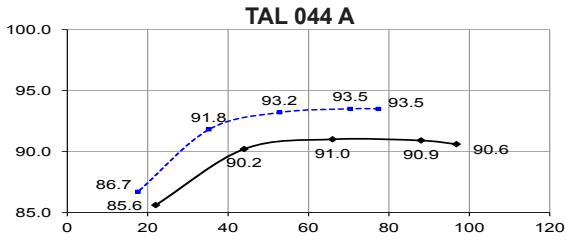
Transient voltage variation 400V - 50 Hz



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

TAL 044 - Three-phase 70 to 165 kVA - 50 Hz / 88 to 206 kVA - 60 Hz

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



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

	A	B	C	D	E	H	J	K
Kcc Short-circuit ratio	0.55	0.48	0.5	0.46	0.41	0.38	0.38	0.41
Xd Direct-axis synchro. reactance unsaturated	308	350	321	355	348	377	375	356
Xq Quadrature-axis synchro. reactance unsaturated	157	178	164	181	177	192	191	182
T'do No-load transient time constant	2475	2475	2308	2308	2154	2154	2112	2077
X'd Direct-axis transient reactance saturated	12.4	14.1	13.9	15.4	16.1	17.5	17.7	17.1
T'd Short-circuit transient time constant	100	100	100	100	100	100	100	100
X''d Direct-axis subtransient reactance saturated	7.4	8.5	8.3	9.2	9.7	10.5	10.6	10.3
T''d Subtransient time constant	10	10	10	10	10	10	10	10
X''q Quadrature-axis subtransient reactance saturated	16.8	19.1	17.8	19.7	19.6	21.3	21.3	20.3
Xo Zero sequence reactance	0.51	0.59	0.58	0.64	0.67	0.72	0.74	0.71
X2 Negative sequence reactance saturated	12.17	13.83	13.1	14.49	14.69	15.91	15.99	15.34
Ta Armature time constant	15	15	15	15	15	15	15	15

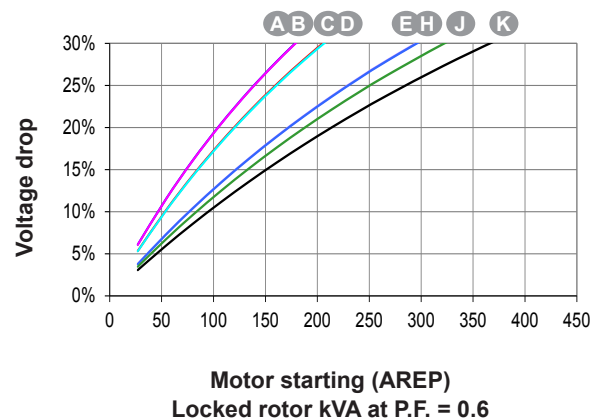
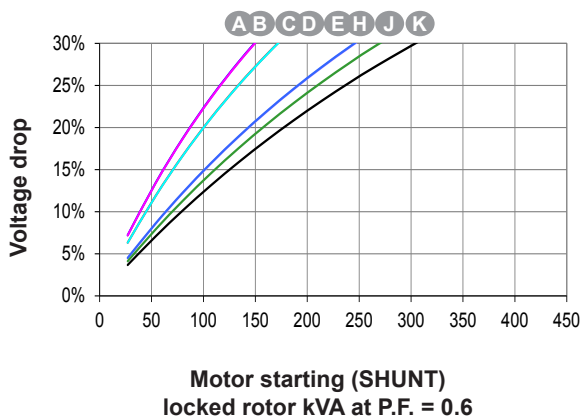
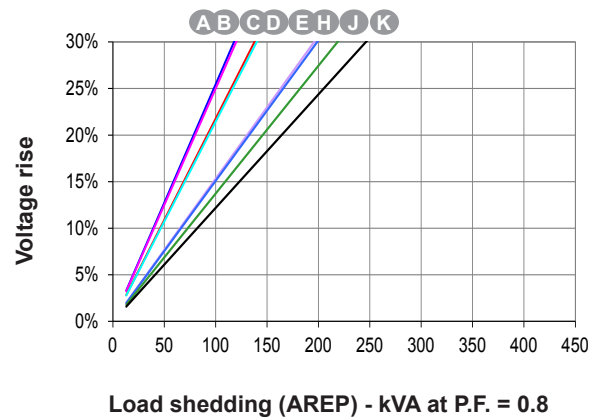
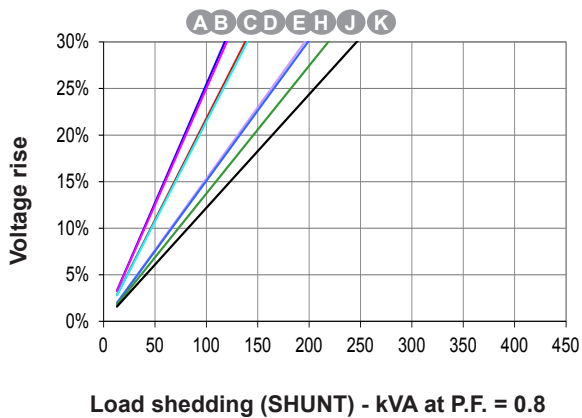
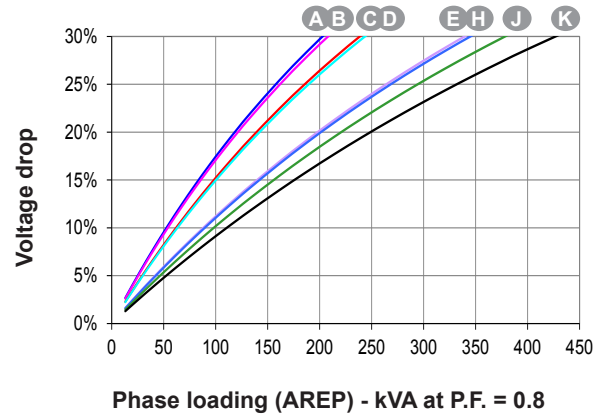
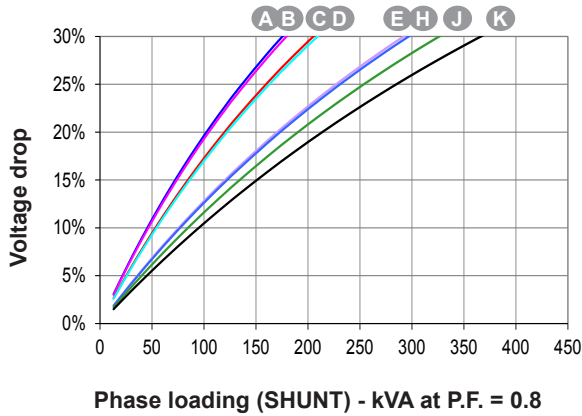
Other class H / 480 V data

io (A) No-load excitation current SHUNT and AREP	0.84/1.08	0.84/1.08	0.79/1.02	0.79/1.02	0.67/0.87	0.67/0.87	0.66/0.85	0.68/0.87
ic (A) On-load excitation current SHUNT and AREP	2.6/3.34	2.91/3.76	2.72/3.51	3.01/3.88	2.58/3.32	2.79/3.59	2.79/3.6	2.79/3.59
uc (V) On-load excitation voltage SHUNT and AREP	29.3/23.5	32.6/26.2	30.3/24.4	33.3/26.7	32.4/26	34.8/28	34.7/27.8	34.4/27.6
ms Response time ($\Delta U = 20\%$ transient)	500	500	500	500	500	500	500	500
kVA Start ($\Delta U = 20\%$ cont. or $\Delta U = 30\%$ trans.) SHUNT*	149.1	149.5	171.6	171.8	246.2	245.6	269.7	304.1
kVA Start ($\Delta U = 20\%$ cont. or $\Delta U = 30\%$ trans.) AREP*	178.7	179	205.3	206.5	294.8	295.6	322.4	366.4
% Transient ΔU (on-load 4/4) SHUNT - P.F.: 0.8 _{LAG}	17.7	19.3	19.1	20.4	18.6	19.7	19.9	19.4
% Transient ΔU (on-load 4/4) AREP - P.F.: 0.8 _{LAG}	15.7	17.1	16.9	18.1	16.5	17.4	17.6	17.2
W No-load losses	2868	2868	3156	3156	3387	3387	3611	4040
W Heat dissipation	7047	8289	8303	9490	9876	11039	11750	12269

* P.F. = 0.6

TAL 044 - Three-phase 70 to 165 kVA - 50 Hz / 88 to 206 kVA - 60 Hz

Transient voltage variation 480V - 60 Hz



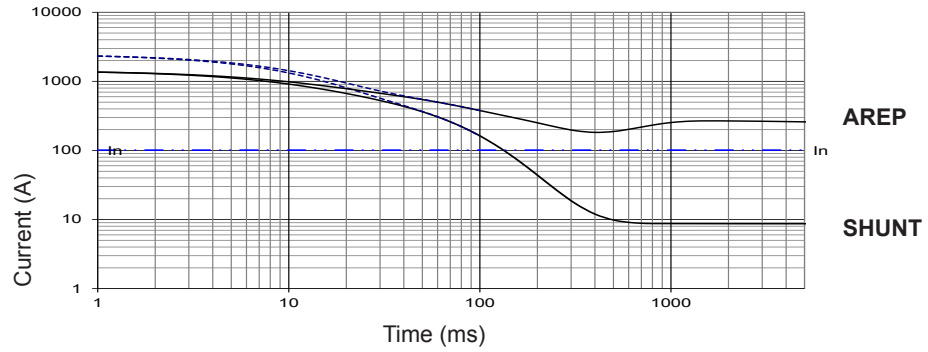
- 1) For a starting P.F. other than 0.6, the starting kVA must be multiplied by $K = \text{Sine P.F.} / 0.8$
- 2) For voltages other than 480V (Y), 277V (Δ), 240V (YY) at 60 Hz, then kVA must be multiplied by $(480/U)^2$ or $(277/U)^2$ or $(240/U)^2$.

TAL 044 - Three-phase 70 to 165 kVA - 50 Hz / 88 to 206 kVA - 60 Hz

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

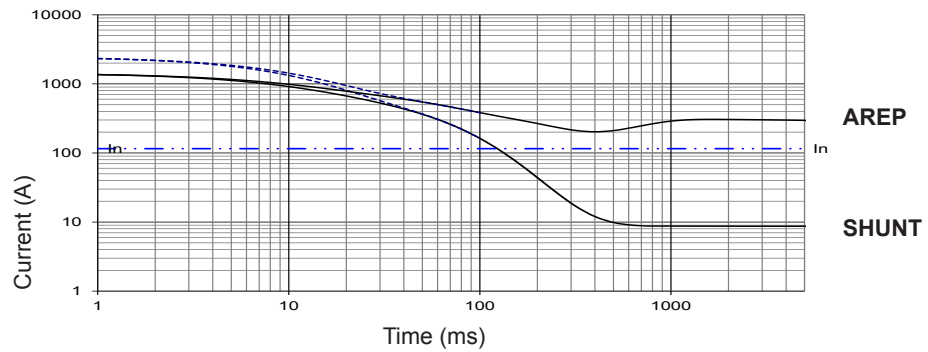
TAL 044 A

Symmetrical —
Asymmetrical - - -



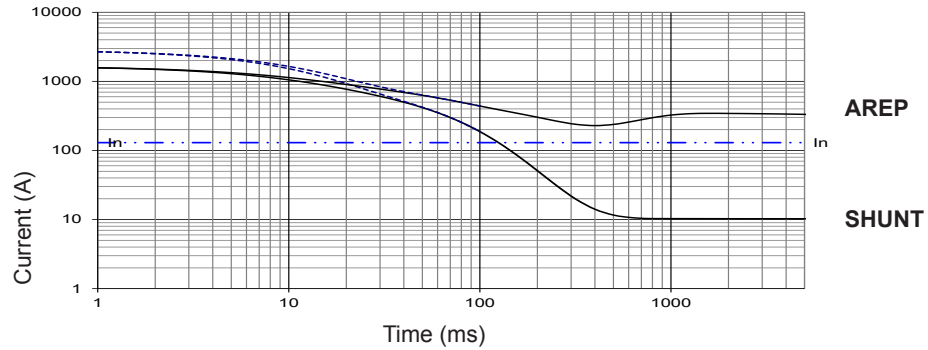
TAL 044 B

Symmetrical —
Asymmetrical - - -



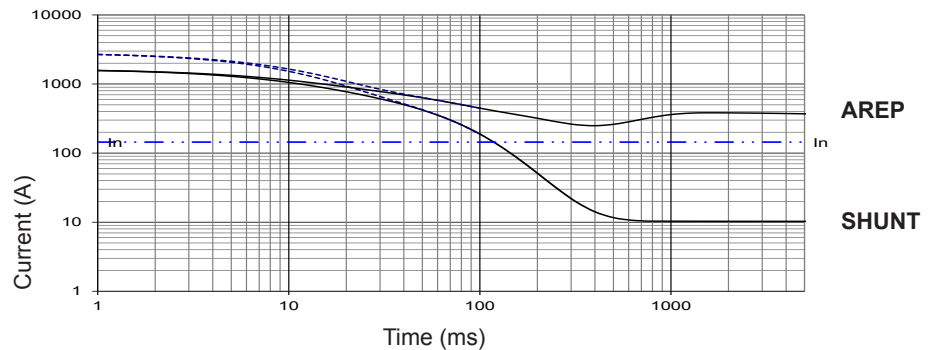
TAL 044 C

Symmetrical —
Asymmetrical - - -



TAL 044 D

Symmetrical —
Asymmetrical - - -



Influence due to connection

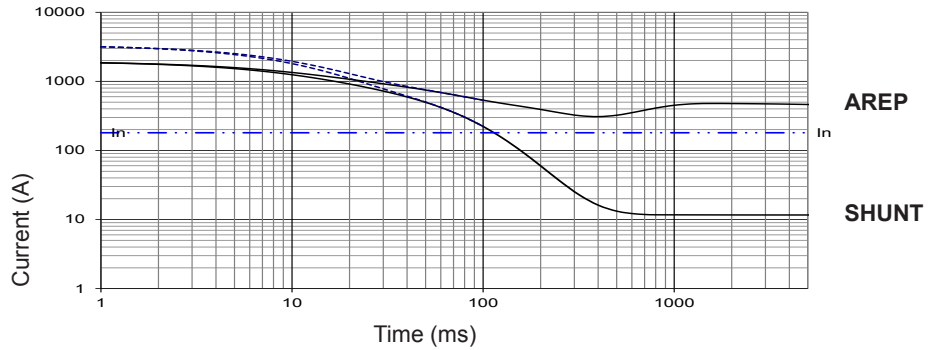
For (Δ) connection, use the following multiplication factor:
- Current value x 1.732.

TAL 044 - Three-phase 70 to 165 kVA - 50 Hz / 88 to 206 kVA - 60 Hz

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

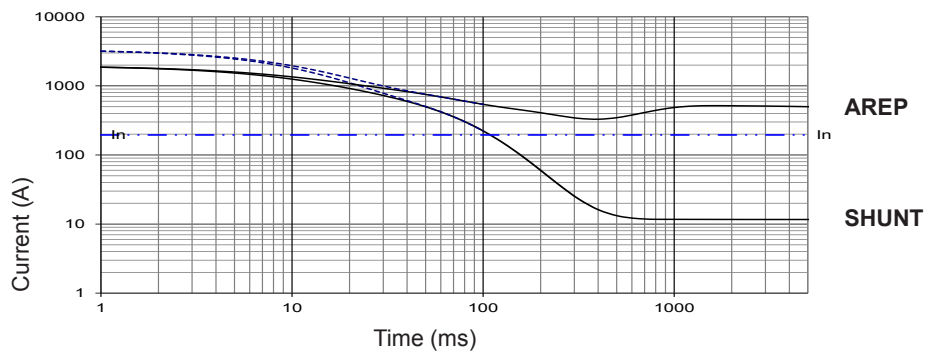
TAL 044 E

Symmetrical —
Asymmetrical - - -



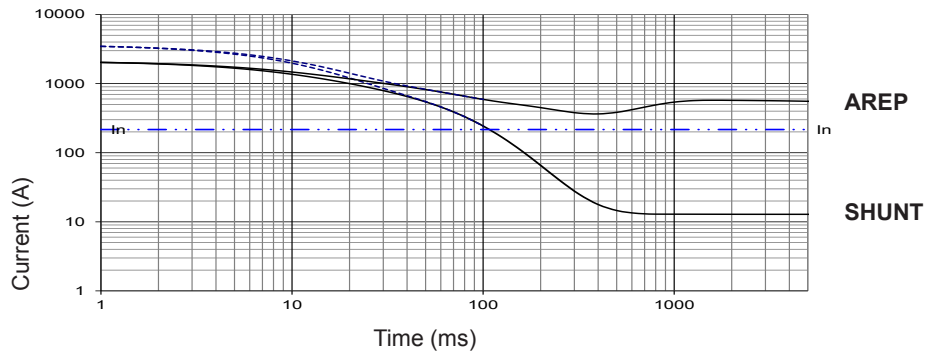
TAL 044 H

Symmetrical —
Asymmetrical - - -



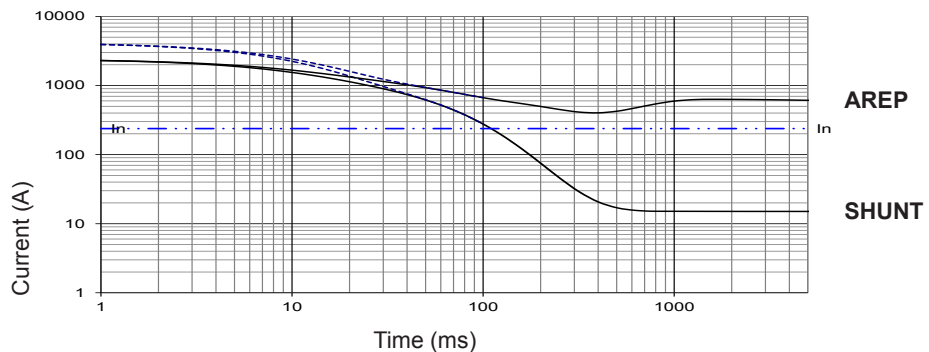
TAL 044 J

Symmetrical —
Asymmetrical - - -



TAL 044 K

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		1.5	

TAL 044 - Dedicated single-phase 57 to 82 kVA - 50 Hz / 80 to 125 kVA - 60 Hz

General characteristics

Insulation class	H	Excitation system	SHUNT
Winding pitch	2/3 (wind. M 50Hz, M1 60Hz)	AVR type	R121
Number of wires	4	Voltage regulation (*)	± 1 %
Protection	IP 23	Total Harmonic Distortion THD (**) in no-load	< 3.5 %
Altitude	≤ 1000 m	Total Harmonic Distortion THD (**) in linear load	< 5 %
Overspeed	2250 R.P.M.	Waveform: NEMA = TIF (**)	< 100
Air flow (m³/s)	50 Hz: 0.25 - 60 Hz: 0.30	Waveform: I.E.C. = FHT (**)	< 2 %

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

Ratings / Efficiencies 50 Hz - 1500 R.P.M. - Winding M

kVA / kW - P.F. = 1(*)						
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	
Serie (SE)	230 V	η %	230 V	230 V	230V	η %
TAL 044 C	57	91	52	60	63	90.7
TAL 044 D1	69	91.5	63	73	76	91.1
TAL 044 E	-	-	-	-	-	-
TAL 044 J	82	92.3	75	87	90	92
TAL 044 K	-	-	-	-	-	-

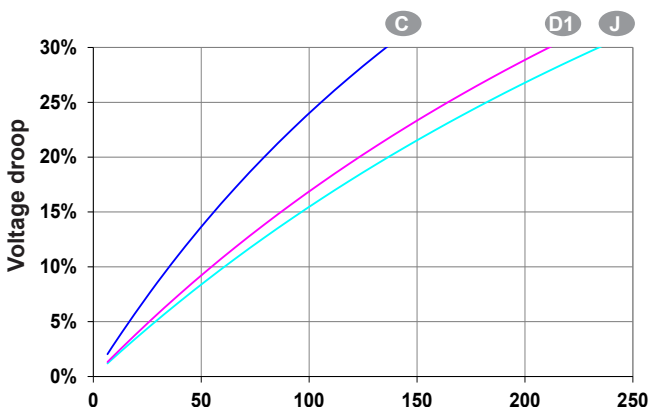
(*) For P.F. 0.8: derating 15%

Ratings / Efficiencies 60 Hz - 1800 R.P.M. - Winding M1

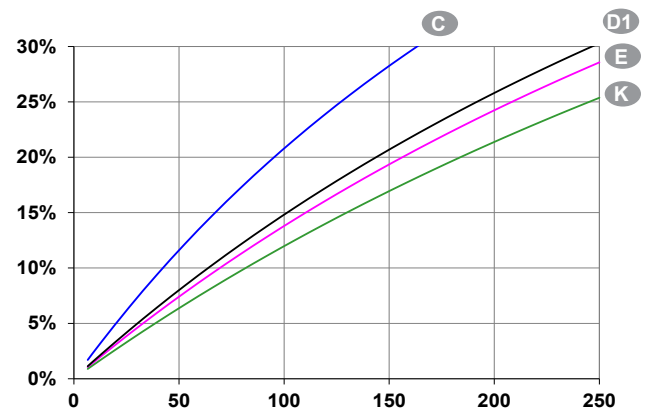
kVA / kW - P.F. = 1(*)						
Duty / T° C	Continuous / 40 °C		Continuous / 40 °C	Stand-by / 40 °C	Stand-by / 27 °C	
Class / T° K	H / 125° K		F / 105° K	H / 150° K	H / 163° K	
Serie (SE)	240 V	η %	240 V	240 V	240V	η %
TAL 044 C	80	90	73	85	88	89.7
TAL 044 D1	100	90	91	106	110	89.7
TAL 044 E	115	90.7	105	122	127	90.2
TAL 044 J	-	-	-	-	-	-
TAL 044 K	125	91.7	114	133	138	91.4

(*) For P.F. 0.8: derating 15%

Starting motor 230V - 50Hz



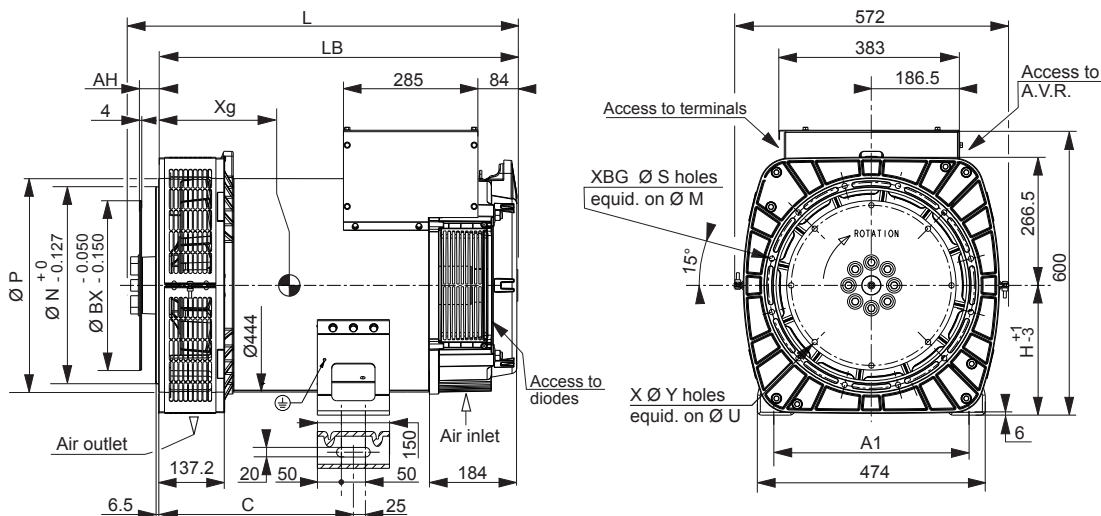
Starting motor 240V - 60Hz



Locked rotor kVA at PF : 0.9

TAL 044 - Three-phase & Single-phase

Single bearing general arrangement



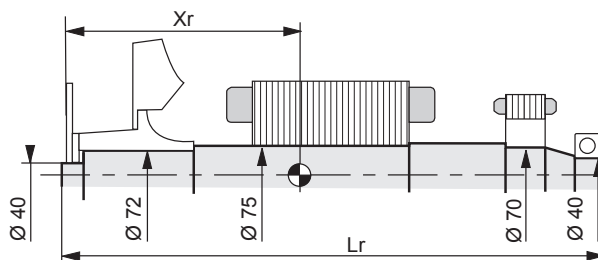
Dimensions (mm) and weight				
Type	L maxi	LB	Xg	Weight/kg
TAL 044 A	750	677	293	262
TAL 044 B	750	677	293	262
TAL 044 C	750	677	313	295
TAL 044 D	750	677	313	295
TAL 044 D1	750	677	313	295
TAL 044 E	820	747	353	368
TAL 044 H	820	747	353	368
TAL 044 J	820	747	365	398
TAL 044 K	860	787	383	433

	Shaft height (mm)		Coupling			
	Standard	Option	Flange	1	2	3
H	270	225	Flex plate			
	Feet length		11 1/2	x	x	x
C	405	332.5	10	x	x	x
A1	406	356				

Flange (mm)					
S.A.E.	P	N	M	S	XBG
3	445	409.58	428.62	11	12
2	485	447.68	466.72	11	12
1	560.5	511.18	530.23	12	10

Flex plate (mm)					
S.A.E.	BX	U	X	Y	AH
11 1/2	352.42	333.38	8	11	39.6
10	314.32	295.28	8	11	53.8

Torsional data



Centre of gravity: Xr (mm), Rotor length: Lr (mm), Weight: M (kg), Moment of inertia: J (kgm ²): (4J = MD ²)									
Flex plate	Flex plate S.A.E. 10				Flex plate S.A.E. 11 1/2				
	Type	Xr	Lr	M	J	Xr	Lr	M	J
TAL 044 A		344.7	704	107.2	0.770	332.1	704	106.8	0.769
TAL 044 B		344.7	704	107.2	0.770	332.1	704	106.8	0.769
TAL 044 C		355.2	704	121	0.894	342.4	704	120.6	0.893
TAL 044 D		355.2	704	121	0.894	342.4	704	120.6	0.893
TAL 044 D1		376.1	704	139.1	1.051	363.2	704	138.7	1.050
TAL 044 E		400.2	774	153.7	1.167	387.2	774	153.3	1.166
TAL 044 H		400.2	774	153.7	1.167	387.2	774	153.3	1.166
TAL 044 J		411.0	774	165.5	1.274	398.0	774	165.1	1.273
TAL 044 K		431.0	814	180.6	1.409	417.9	814	180.2	1.408

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.

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Moteurs Leroy-Somer SAS. Siège : Bd Marcellin Leroy, CS 10015, 16915 Angoulême Cedex 9, France.
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