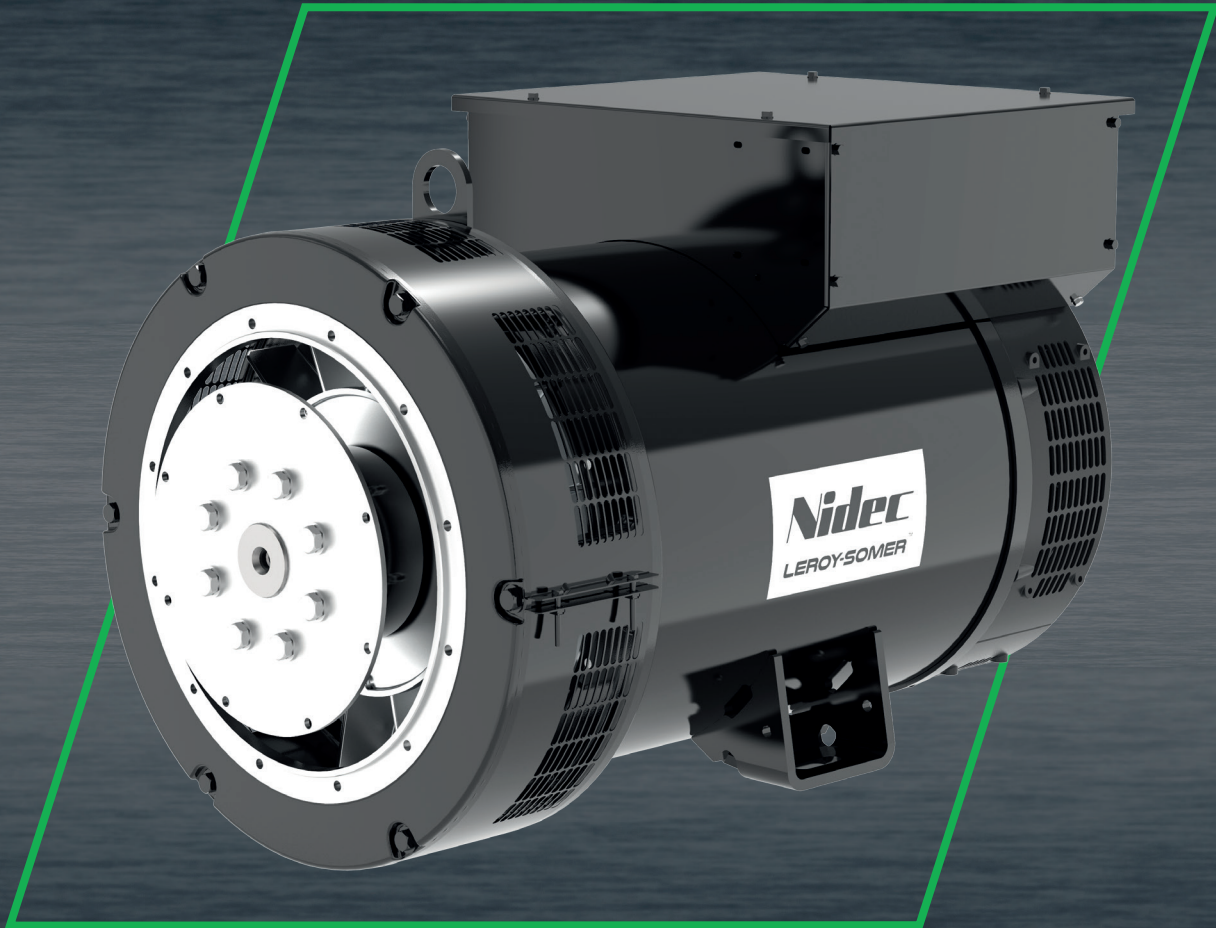


Nidec

Power



TAL 046

Low Voltage Alternator - 4 poles

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

Electrical and mechanical data

LERROY-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 such as IEC 60034, NEMA MG 1.32-33, ISO 8528-3, CSA C22.2 n°100-14, UL 1446, UL 1004-1 and UL 1004-4. EC, UKCA, CMIM, UL 1446, UL recognized and UL listed declarations and certifications are available for the TAL 046.

The standards IEC 61000-6-2, IEC 61000-6-3, IEC 61000-6-4, VDE 0875G, VDE 0875N and EN 55011 allow compliance with group 1 class A for the European zone.

The Leroy-Somer™ TAL 046 alternator 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) | ULc/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



TAL 046 - 230 to 365 kVA - 50 Hz / 288 to 438 kVA - 60 Hz

General characteristics

| | | | | |
|---|---|--|---------|-------------|
| Insulation class | H | Excitation system 6-wire | SHUNT | AREP+ / PMG |
| Winding pitch | 2/3 (wind.6S - 6-wire / wind.6 - 12-wire) | AVR type | R150 | R180 |
| Number of wires | 6 (12 option) | Excitation system 12-wire (option) | SHUNT | AREP+ / PMG |
| Protection | IP 23 | AVR type | R150 | R180 |
| Altitude | ≤ 1 000 m | Voltage regulation (**) | ± 0.8 % | ± 0.5 % |
| Overspeed | 2 250 R.P.M. | Total Harmonic Distortion THD (***) in no-load | < 2.5 % | |
| Air flow 50 Hz | 0.48 m ³ /s | Total Harmonic Distortion THD (***) in linear load | < 5 % | |
| Air flow 60 Hz | 0.58 m ³ /s | Waveform: NEMA = TIF (***) | < 50 | |
| AREP+/PMG Short-circuit current = 2.7 In: 5 seconds (*) | | 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 - 1 500 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

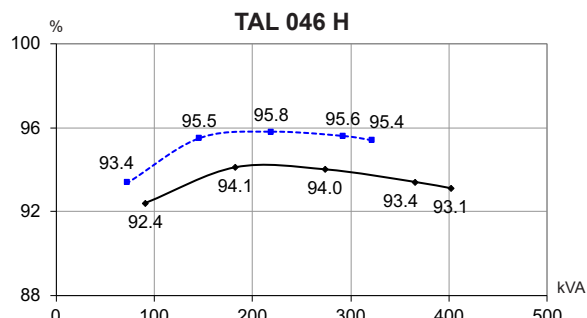
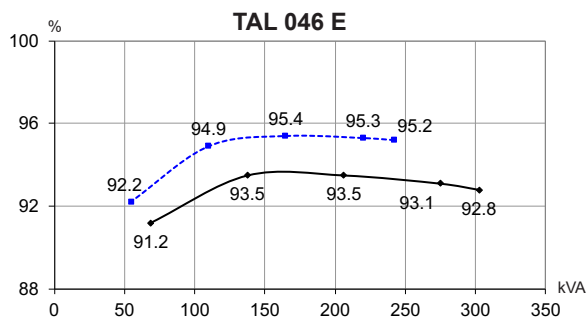
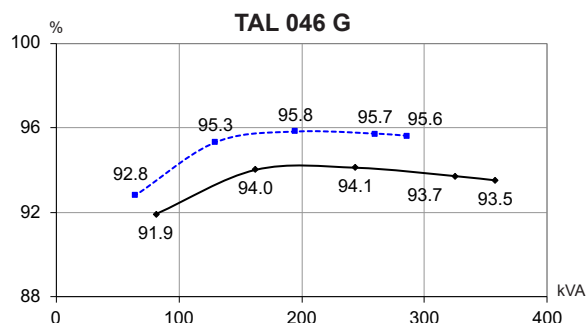
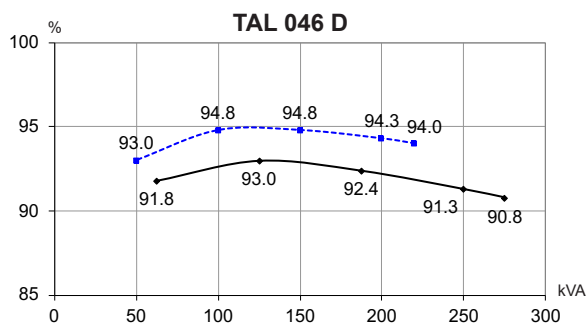
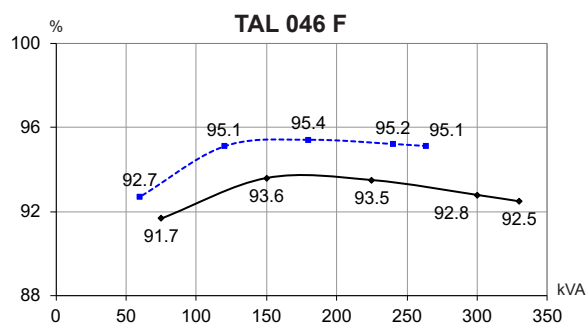
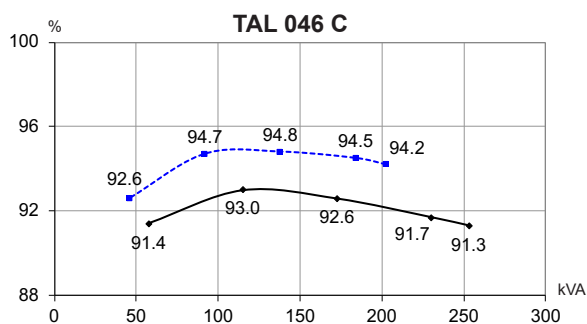
Ratings 60 Hz - 1 800 R.P.M.

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

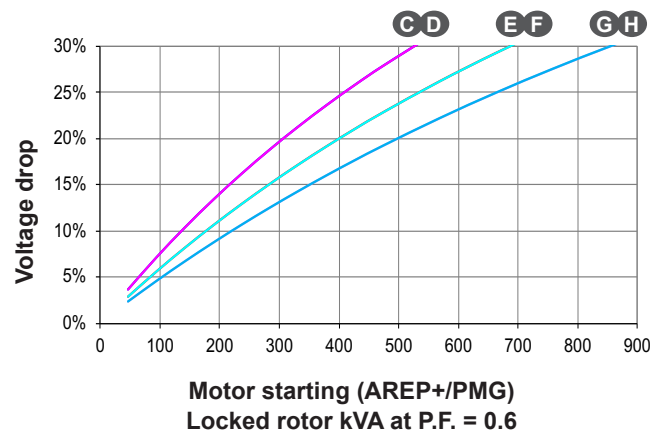
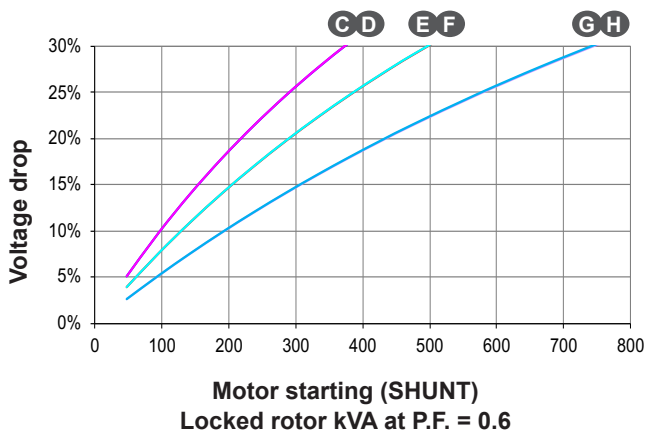
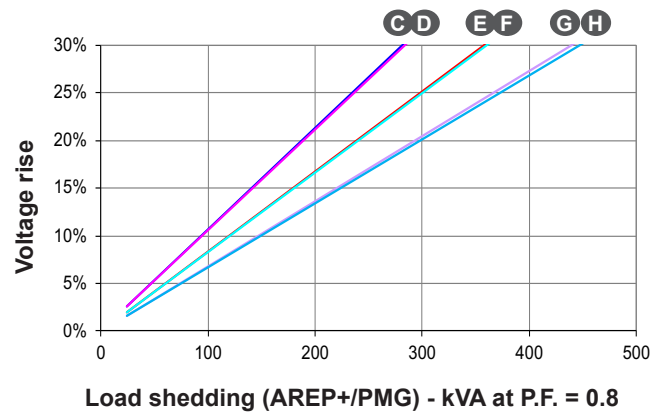
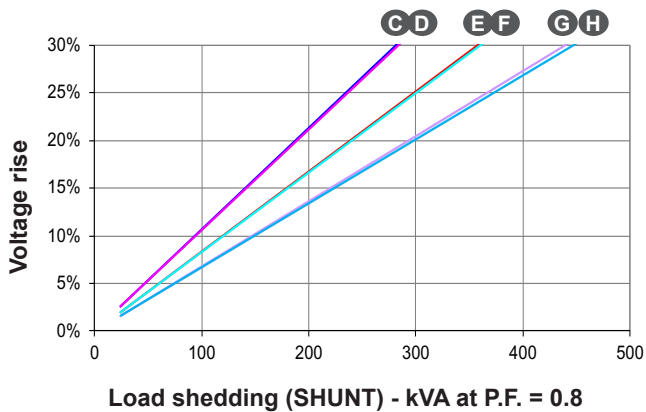
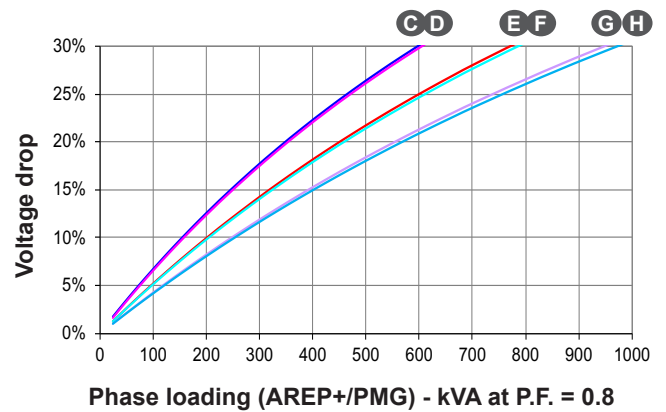
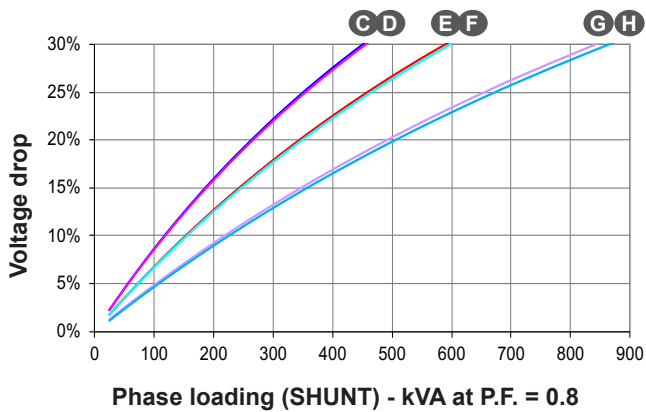
| | C | D | E | F | G | H |
|--|-------|-------|-------|-------|-------|-------|
| Kcc Short-circuit ratio | 0.37 | 0.34 | 0.49 | 0.45 | 0.48 | 0.43 |
| Xd Direct-axis synchronous reactance unsaturated | 340 | 370 | 278 | 303 | 270 | 303 |
| Xq Quadrature-axis synchronous reactance unsaturated | 173 | 188 | 142 | 154 | 137 | 154 |
| T'do No-load transient time constant | 1 983 | 1 983 | 2 049 | 2 049 | 2 093 | 2 093 |
| 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

| | C | D | E | F | G | H |
|--|--------|--------|--------|--------|--------|--------|
| 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 | 3 299 | 3 299 | 4 328 | 4 328 | 4 750 | 4 750 |
| W Heat dissipation | 16 579 | 18 888 | 16 242 | 18 374 | 17 367 | 20 482 |

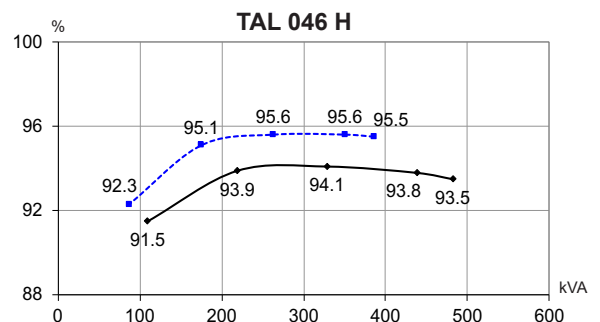
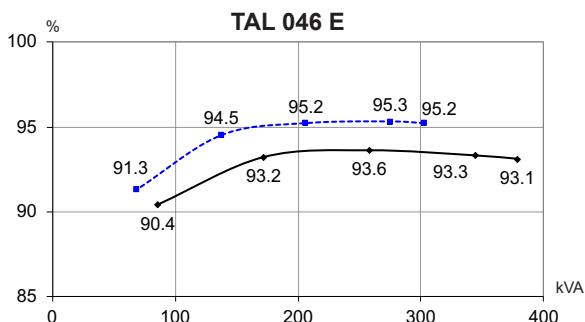
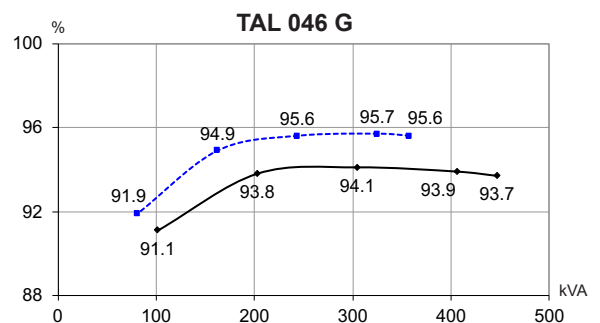
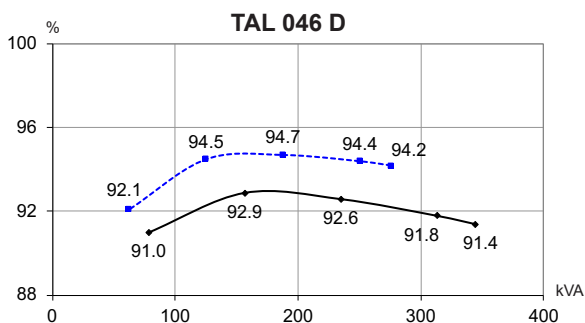
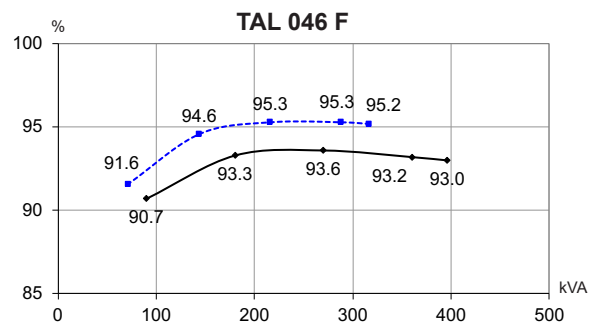
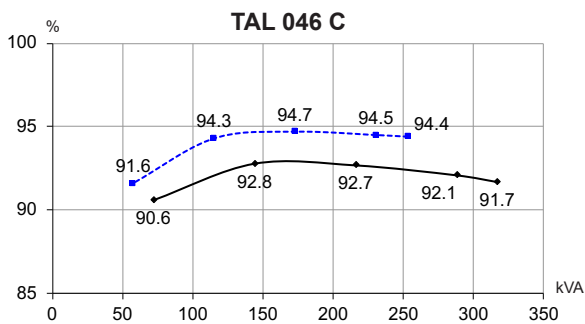
* P.F. = 0.6

Transient voltage variation 400 V - 50 Hz



- 1) For a starting P.F. other than 0.6, the starting kVA must be multiplied by $K = \text{Sine P.F.} / 0.6$
- 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

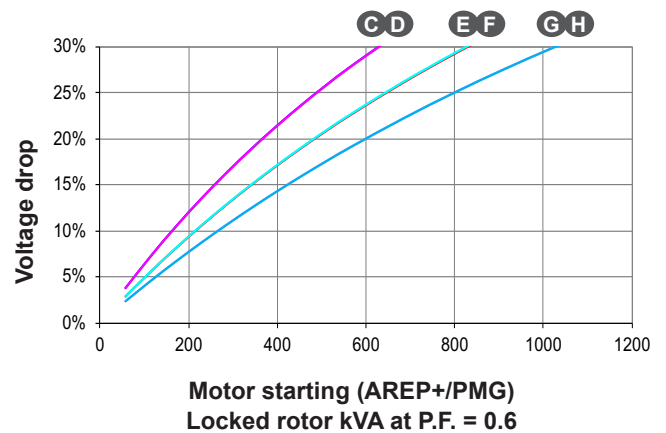
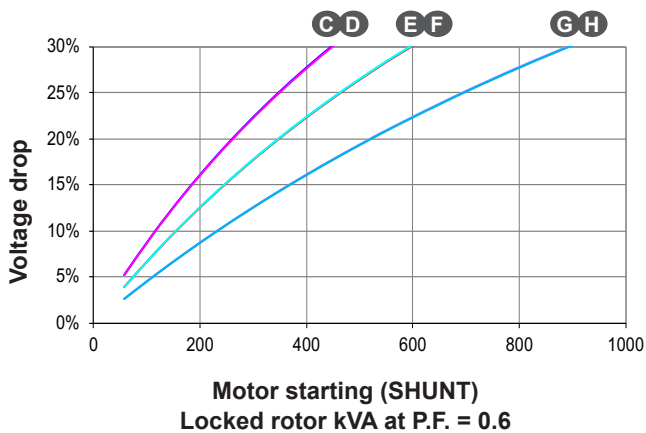
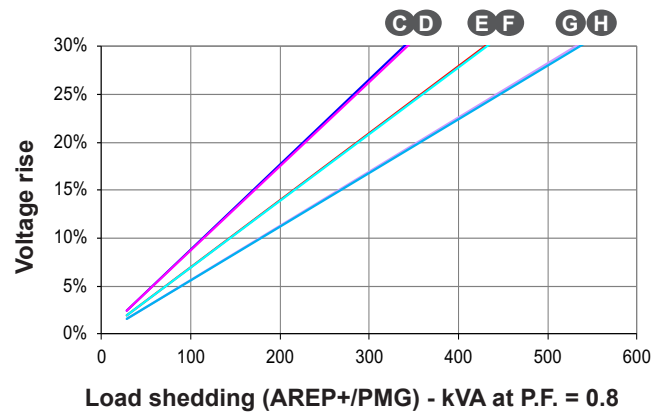
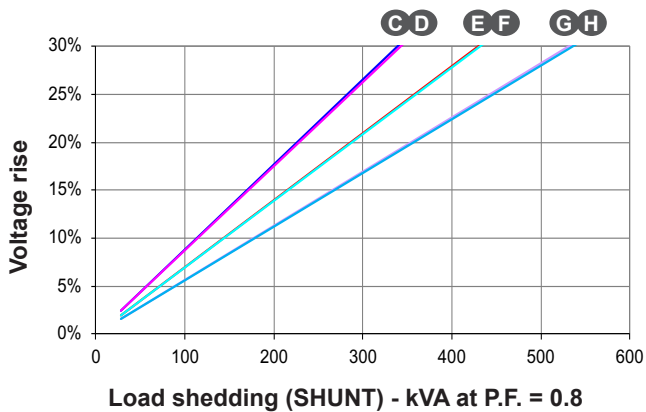
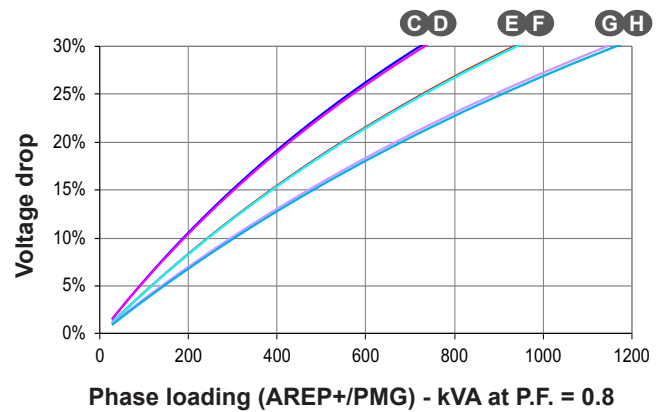
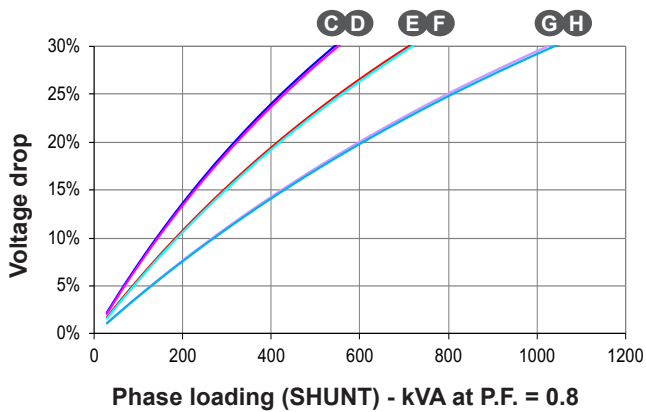
| | C | D | E | F | G | H |
|--|-------|-------|-------|-------|-------|-------|
| Kcc Short-circuit ratio | 0.36 | 0.33 | 0.47 | 0.45 | 0.46 | 0.43 |
| Xd Direct-axis synchronous reactance unsaturated | 355 | 386 | 290 | 303 | 281 | 303 |
| Xq Quadrature-axis synchronous reactance unsaturated | 181 | 197 | 148 | 154 | 143 | 154 |
| T'do No-load transient time constant | 1 983 | 1 983 | 2 049 | 2 049 | 2 093 | 2 093 |
| 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

| | C | D | E | F | G | H |
|--|--------|--------|--------|--------|--------|--------|
| 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 | 1 024 | 1 025 |
| % 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 | 4 960 | 4 960 | 6 365 | 6 365 | 6 978 | 6 978 |
| W Heat dissipation | 19 692 | 22 264 | 19 530 | 20 731 | 20 941 | 23 137 |

* P.F. = 0.6

Transient voltage variation 480 V - 60 Hz

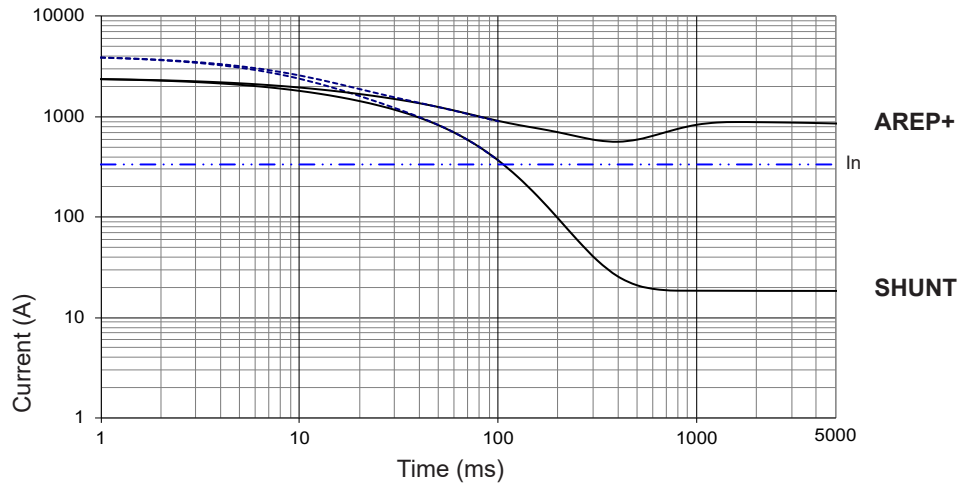


- 1) For a starting P.F. other than 0.6, the starting kVA must be multiplied by $K = \text{Sine P.F.} / 0.6$
- 2) For voltages other than 480V (Y), 277V (Δ), 240V (YY) at 60 Hz, then kVA must be multiplied by $(480/U)^2$ or $(277/U)^2$ or $(240/U)^2$.

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

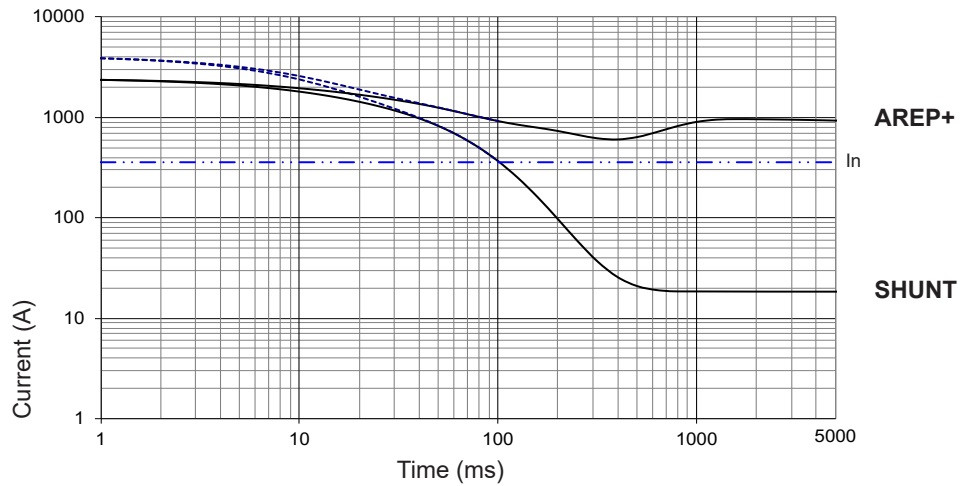
TAL 046 C

Symmetrical —
Asymmetrical - - -



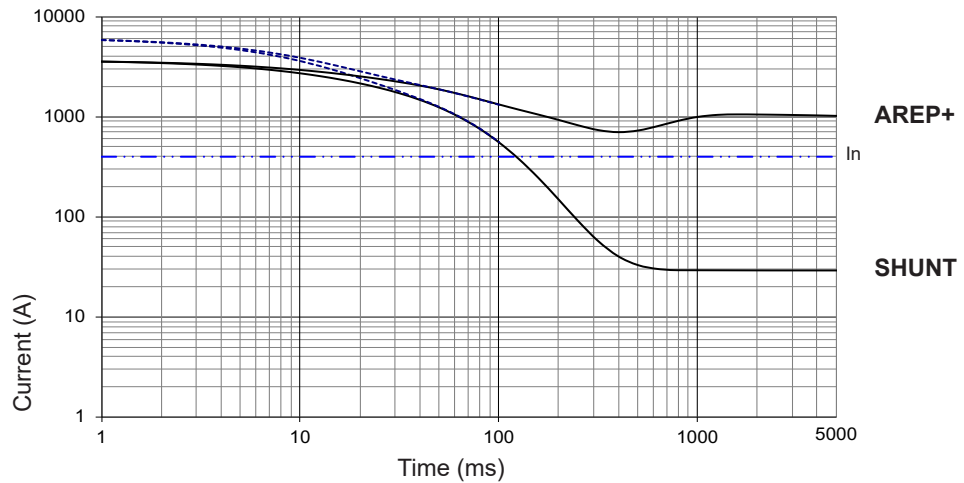
TAL 046 D

Symmetrical —
Asymmetrical - - -



TAL 046 E

Symmetrical —
Asymmetrical - - -



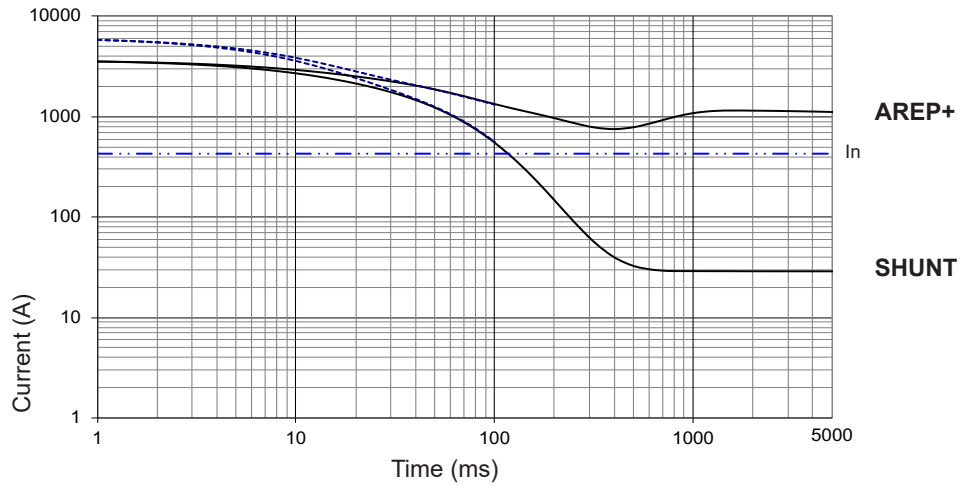
Influence due to connection

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)

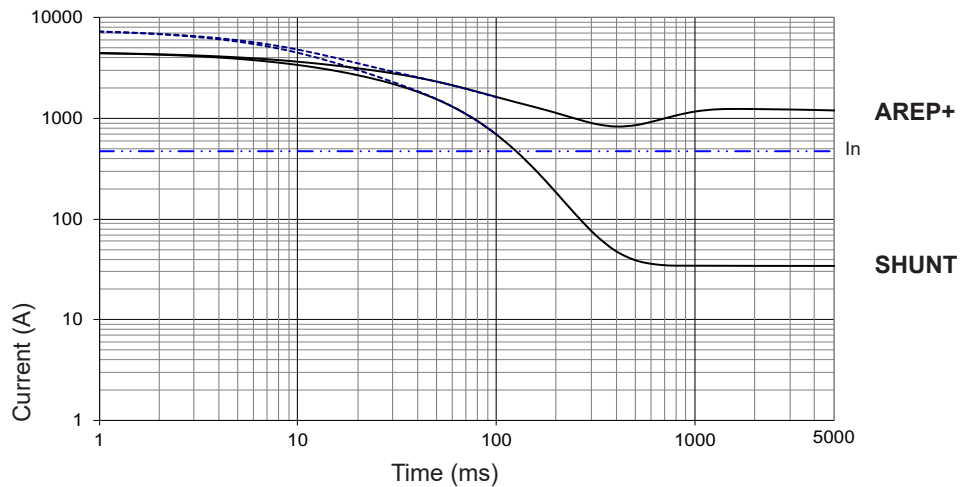
TAL 046 F

Symmetrical —
Asymmetrical - - -



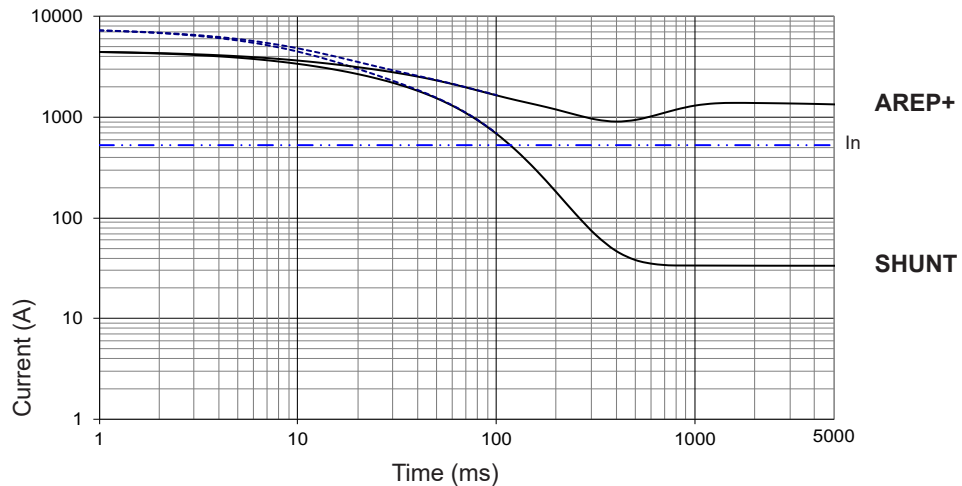
TAL 046 G

Symmetrical —
Asymmetrical - - -



TAL 046 H

Symmetrical —
Asymmetrical - - -

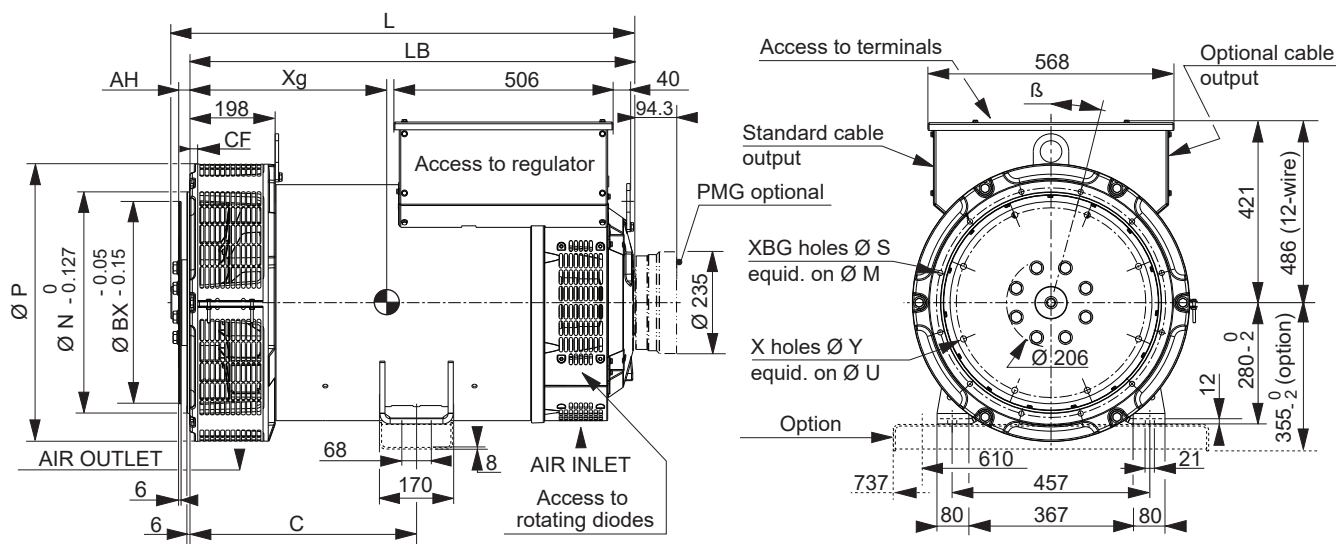


Influence due to short-circuit

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** | 1 084 | 1 032 | 493 | 525 | 888 |
| TAL 046 H** | 1 084 | 1 032 | 493 | 525 | 888 |

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 |

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

Flange (mm)

| S.A.E. | P | XBG | N | M | S | β° | CF |
|--------|----------|-----|---------|---------|----|---------|--------|
| 3 | 600*/641 | 12 | 409.575 | 428.625 | 11 | 15° | 10/12* |
| 2 | 600*/641 | 12 | 447.675 | 466.725 | 11 | 15° | 10/12* |
| 1 | 600*/641 | 12 | 511.175 | 530.225 | 12 | 15° | 10/26* |
| ½ | 648 | 12 | 584.2 | 619.125 | 14 | 15° | 6/-* |
| 0 | 710 | 16 | 647.7 | 679.45 | 14 | 11° 15' | 19/-* |

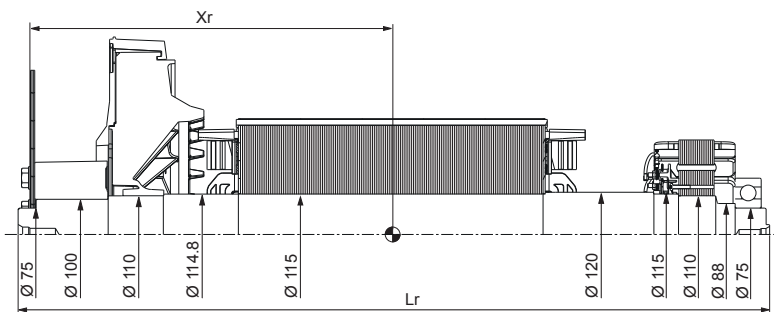
Flex plate (mm)

| 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

* Specific dimension TAL 046 C

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 | | | | S.A.E. 18 | | | |
|------------|-------------|-------|-----|------|-----------|-------|-----|------|-----------|-------|-----|------|
| | Xr | Lr | M | J | Xr | Lr | M | J | Xr | Lr | M | J |
| TAL 046 C | 420 | 923 | 255 | 2.64 | 408 | 923 | 256 | 2.8 | 384 | 923 | 257 | 3.03 |
| TAL 046 D | 420 | 923 | 255 | 2.64 | 408 | 923 | 256 | 2.8 | 384 | 923 | 257 | 3.03 |
| TAL 046 E | 460 | 968 | 304 | 3.28 | 448 | 968 | 305 | 3.44 | 424 | 968 | 317 | 3.62 |
| TAL 046 F | 460 | 968 | 304 | 3.28 | 448 | 968 | 305 | 3.44 | 424 | 968 | 317 | 3.62 |
| TAL 046 G | 508 | 1 063 | 358 | 3.97 | 497 | 1 063 | 359 | 4.13 | 473 | 1 063 | 371 | 4.35 |
| TAL 046 H | 508 | 1 063 | 358 | 3.97 | 497 | 1 063 | 359 | 4.13 | 473 | 1 063 | 371 | 4.35 |

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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