# HSD

HSD


..... 02
..... 02
..... 02
..... 03
..... 04-06
..... 07-11
..... 12-17
..... 18-19
..... 19-22
..... 23
..... 23
..... 23
..... 23

HSD

.

| | | 80 | 100 | 125 | 160 | 200 | 230 | 250 | 315 | 400 | 500 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ($cm^3$/rev.) | | 80.2 | 99.6 | 124.9 | 159.2 | 199.4 | 232.1 | 249.3 | 314.0 | 391.9 | 488.3 |
| (rpm) | | 773 | 739 | 592 | 465 | 372 | 318 | 298 | 236 | 188 | 153 |
| | | 982 | 892 | 714 | 562 | 447 | 385 | 359 | 284 | 229 | 187 |
| (N·m) | | 241 | 297 | 370 | 473 | 610 | 658 | 676 | 874 | 897 | 847 |
| | | 316 | 390 | 485 | 580 | 727 | 812 | 855 | 987 | 1056 | 986 |
| (kW) | | 15.5 | 18.0 | 18.0 | 16.5 | 16.5 | 13.8 | 14.5 | 15.0 | 11.0 | 9 |
| | | 19.5 | 22.5 | 22.5 | 23.0 | 22.0 | 17.2 | 18.0 | 17.0 | 12.5 | 10.5 |
| (bar) | | 210 | 210 | 210 | 210 | 210 | 200 | 200 | 200 | 160 | 120 |
| | | 275 | 275 | 275 | 260 | 250 | 250 | 250 | 240 | 190 | 140 |
| | | 295 | 295 | 295 | 280 | 270 | 270 | 270 | 260 | 210 | 160 |
| (L/min) | | 65 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| | | 80 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| (bar) | | 12 | 10 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| (N·m) | | 145 | 215 | 283 | 359 | 460 | 530 | 554 | 734 | 796 | 781 |
| | | 188 | 281 | 371 | 440 | 557 | 633 | 697 | 858 | 925 | 925 |
| (kg) | | 8.2 | 8.4 | 8.7 | 9 | 9.5 | 9.9 | 10.1 | 11.1 | 11.6 | 11.8 |
| | | 9.9 | 10.1 | 10.4 | 10.7 | 11.2 | 11.6 | 11.8 | 12.8 | 13.3 | 13.5 |

· 6 T - 0041

· 0.6

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· ISO 4406 20/18/15

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· 50° C $20mm^2/s$

· 82° C

· 10-15

| HSD | 080 | A3 | H | S1 | A | N | A |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| | | A3/A2/B2/M0/F1/A4/M2/F5/A6 | B0/F0 | |
|---|---|---|---|---|
| | Ø25.4 6.35×6.35×31.75 | ● | | S1 |
| | Ø31.75 7.96×7.96×31.75 | ● | | S5 |
| | Ø32 10×8×45 | ● | | S3 |
| | Ø22 13-DP16/32 | ● | | R2 |
| | Ø25.4 SAE 6B 1/4-20UNC | ● | | R1 |
| | Ø31.75 14-DP12/24 3/8-16UNC | ● | | R4 |
| | Ø31.75 14-DP12/24 M8 | ● | | R5 |
| | Ø31.75 7.96×7.96×31.75 | ● | | T2 |
| | Ø25 8×7×32 M8 | ● | | S2 |
| | Ø31.75 14-DP12/24, 3/8-16UNC | ● | | RA |
| | Ø30 6B 30×26×6, | ● | | R9 |
| | Ø31.75 7.96×7.96×22.6 | ● | | TB |
| | Ø25.4 7.96×7.96×31.75 12mm | ● | | T4 |
| | Ø25.4 6.35×6.35×31.75 1/4-20UNC | ● | | SB |
| | Ø25(-0.01/-0.03) 8×7×32 M8 | ● | | SA |
| | | | ● | C1 |

| | | |
|---|---|---|
| | | A |
| | | R |

| | | |
|---|---|---|
| | | N |
| | | B |
| | | C |

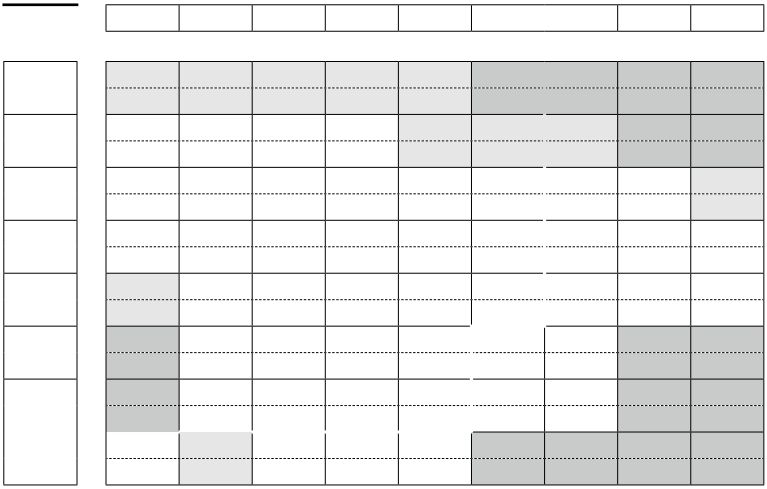
| | | A3/A2/B2/B0/F0/F1/ A4/M2/F5/A6 | M0 | |
|---|---|---|---|---|
| | | ● | ● | A |
| | | ● | ● | F |
| | | ● | ● | V |
| | | ● | ● | S |
| | DT04-4P | ● | ● | S2 |
| | | ○ | ● | D |

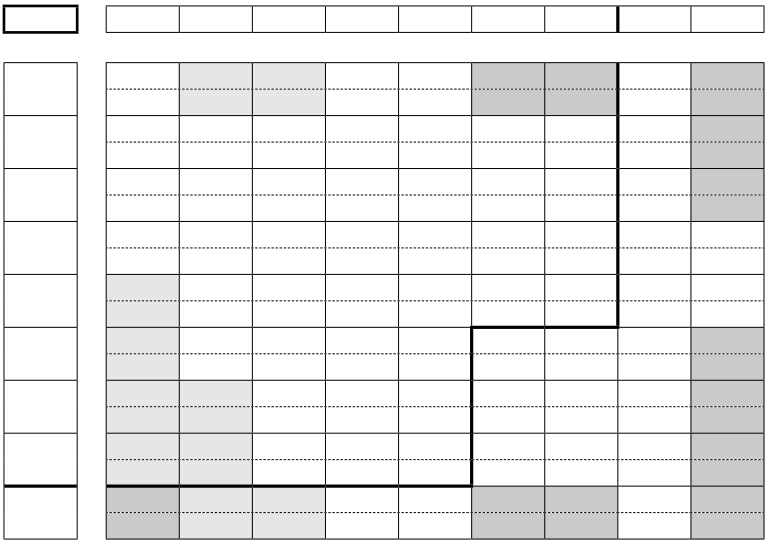
T - 0067

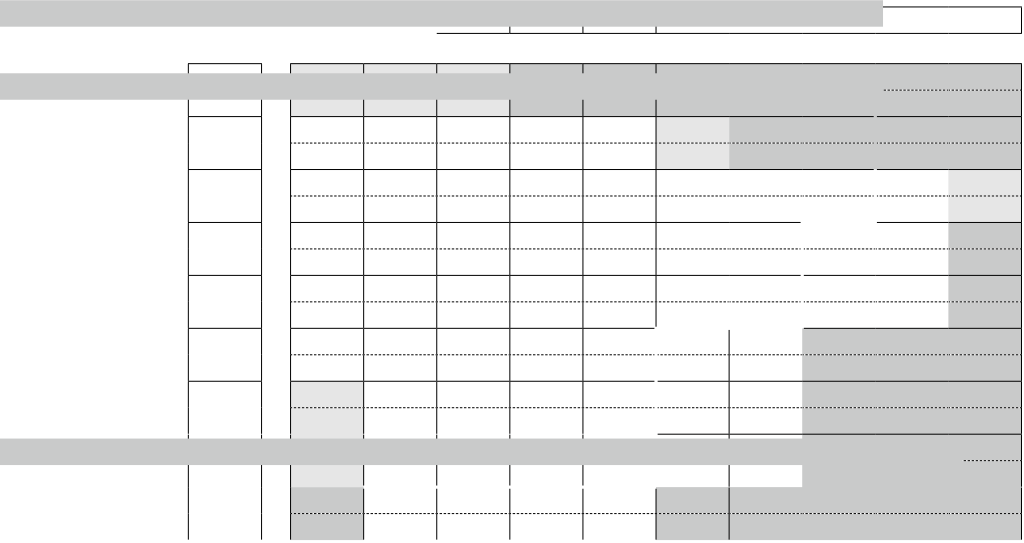
● = ○ =

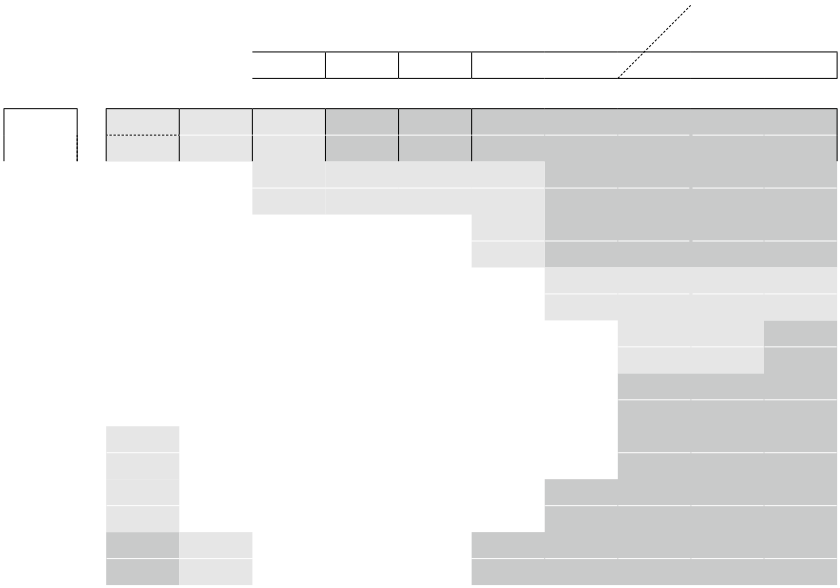
1 B0 F0 C1

2









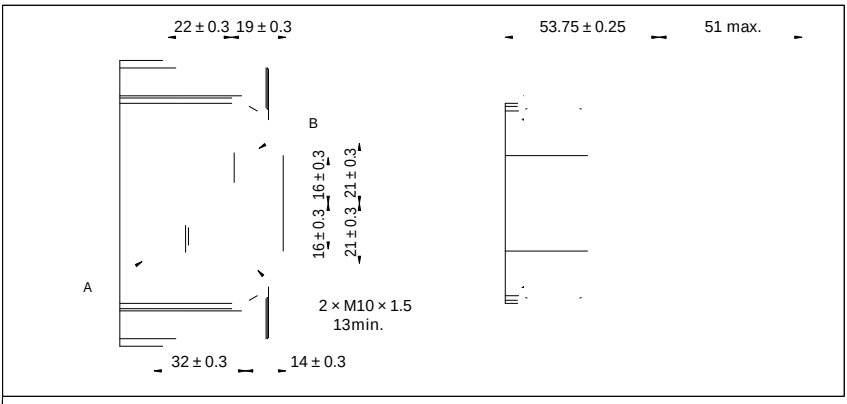
| 400 | (bar) 30 | 60 | 80 | 105 | 120 | 140 | 160 | 175 | 190 |
|---|---|---|---|---|---|---|---|---|---|
| 391.9cm³/rev. | (N·m), **(rpm)** | | | | | | | | |
| (L/min) 5 | 142 | 293 | | | | | | | |
| | **11** | **10** | | | | | | | |
| 10 | 153 | 306 | 414 | 558 | | | | | |
| | **25** | **24** | **23** | **22** | | | | | |
| 20 | 152 | 328 | 448 | 590 | 677 | 791 | 897 | 979 | |
| | **50** | **49** | **48** | **47** | **46** | **45** | **39** | **36** | |
| 30 | 163 | 342 | 460 | 608 | 697 | 815 | 931 | 997 | 1056 |
| | **75** | **74** | **73** | **72** | **71** | **70** | **68** | **65** | **60** |
| 40 | 153 | 331 | 451 | 599 | 688 | 810 | 923 | 978 | |
| | **100** | **99** | **98** | **97** | **96** | **95** | **93** | **91** | |
| 50 | 136 | 330 | 454 | 590 | 688 | 776 | | | |
| | **125** | **124** | **123** | **122** | **121** | **121** | | | |
| 60 | 123 | 298 | 417 | 566 | 657 | 775 | | | |
| | **150** | **150** | **149** | **148** | **147** | **145** | | | |
| 75 | 96 | 278 | 399 | 544 | 635 | | | | |
| | **188** | **188** | **187** | **185** | **185** | | | | |
| 90 | 68 | 248 | 367 | 517 | | | | | |
| | **225** | **229** | **227** | **224** | | | | | |

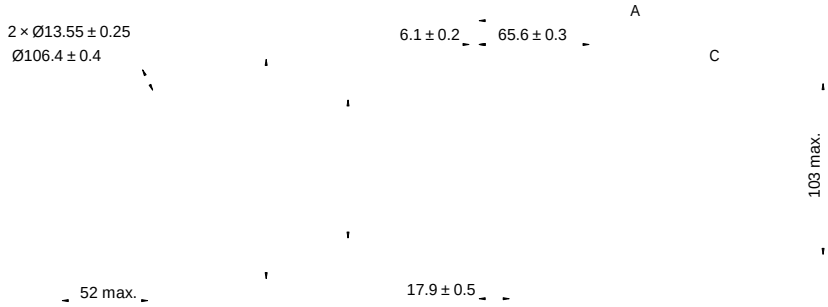
70-100% 40-69% 0-39% T - 0055

| 500 | (bar) 25 | 50 | 80 | 90 | 105 | 120 | 140 |
|---|---|---|---|---|---|---|---|
| 488.3cm³/rev. | (N·m), **(rpm)** | | | | | | |
| (L/min) 10 | 160 | 329 | | | | | |
| | **20** | **20** | | | | | |
| 20 | 152 | 333 | 547 | 616 | 722 | | |
| | **41** | **40** | **40** | **39** | **34** | | |
| 30 | 160 | 342 | 561 | 633 | 740 | 847 | 986 |
| | **57** | **57** | **56** | **56** | **56** | **55** | **54** |
| 40 | 153 | 337 | 557 | 629 | 736 | 842 | |
| | **81** | **81** | **80** | **80** | **79** | **79** | |
| 50 | 132 | 316 | 538 | 613 | 723 | 835 | |
| | **102** | **101** | **100** | **100** | **100** | **99** | |
| 60 | 121 | 304 | 526 | 597 | 708 | | |
| | **122** | **122** | **121** | **121** | **135** | | |
| 75 | 92 | 260 | 478 | 552 | 664 | | |
| | **153** | **153** | **152** | **151** | **151** | | |
| 90 | 56 | 223 | 447 | 518 | | | |
| | **177** | **186** | **184** | **184** | | | |

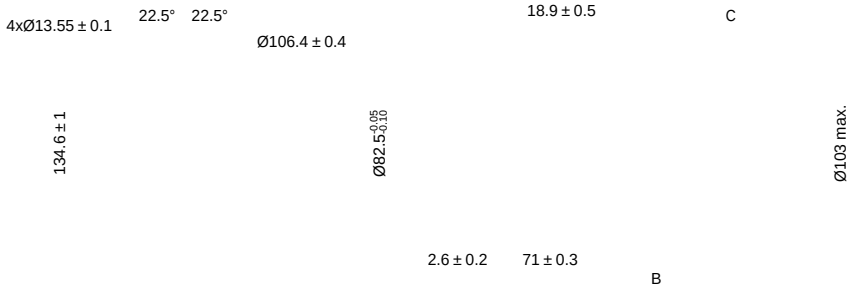
(N·m):835
**(rpm): 99**

70-100% 40-69% 0-39% T - 0056


22 ± 0.3
19 ± 0.3
53.75 ± 0.25
51 max.
B
16 ± 0.3
16 ± 0.3
21 ± 0.3
21 ± 0.3
A
2 × M10 × 1.5
13min.
32 ± 0.3
14 ± 0.3


A
2 × Ø13.55 ± 0.25
Ø106.4 ± 0.4
6.1 ± 0.2
65.6 ± 0.3
C
103 max.
52 max.
17.9 ± 0.5

18 ± 0.5
C
120X120
90
Ø100 -0.036 -0.071
Ø103 max.
4xØ13.55 ± 0.1
8 ± 0.2
67 ± 0.3
D


4xØ13.55 ± 0.1
22.5°
22.5°
Ø106.4 ± 0.4
18.9 ± 0.5
C
134.6 ± 1
Ø82.5-0.05-0.10
Ø103 max.
2.6 ± 0.2
71 ± 0.3
B

| | | | | | |
|---|---|---|---|---|---|
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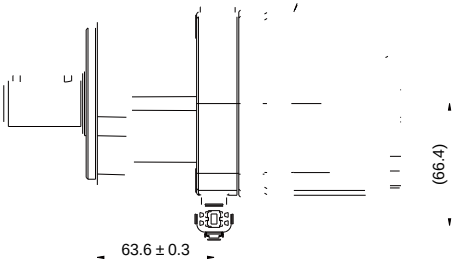
| | | | | | |

T - 0058

L A B C D ±0.61mm




330 ± 20

(21.4)
Ø5 ± 0.3
4x0.5mm
2XR7
13 ± 0.1
O Ø8.5x1
5.2
Ø9.4 ± 0.1
Ø10.25 ± 0.03
12
± 5°

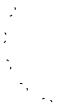
P - 0235

T - 0192

P - 0236

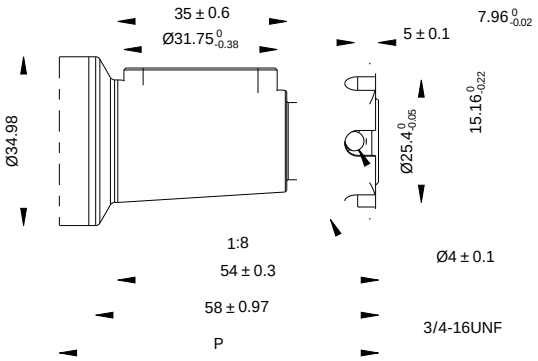
P - 0237

·14



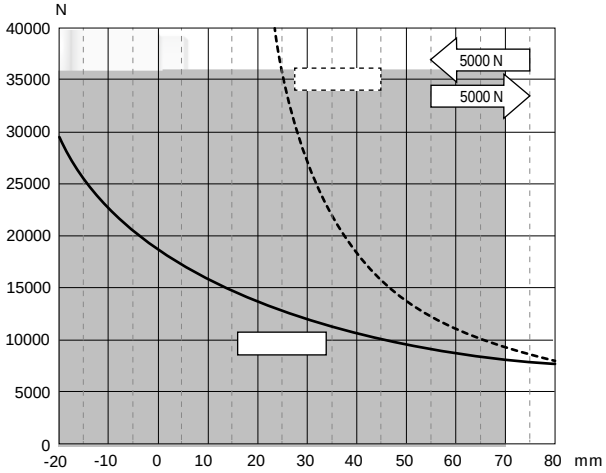
·14

Q


35 ± 0.6
Ø31.75 0 -0.38
Ø34.98
1:8
54 ± 0.3
58 ± 0.97
P
5 ± 0.1
7.96 0 -0.02
15.16 0 -0.22
Ø25.4 0 -0.05
Ø4 ± 0.1
3/4-16UNF

, 0N

100rpm $L_{10}$ 2000




P - 0018

P - 0020

A

P - 0019

P - 0028