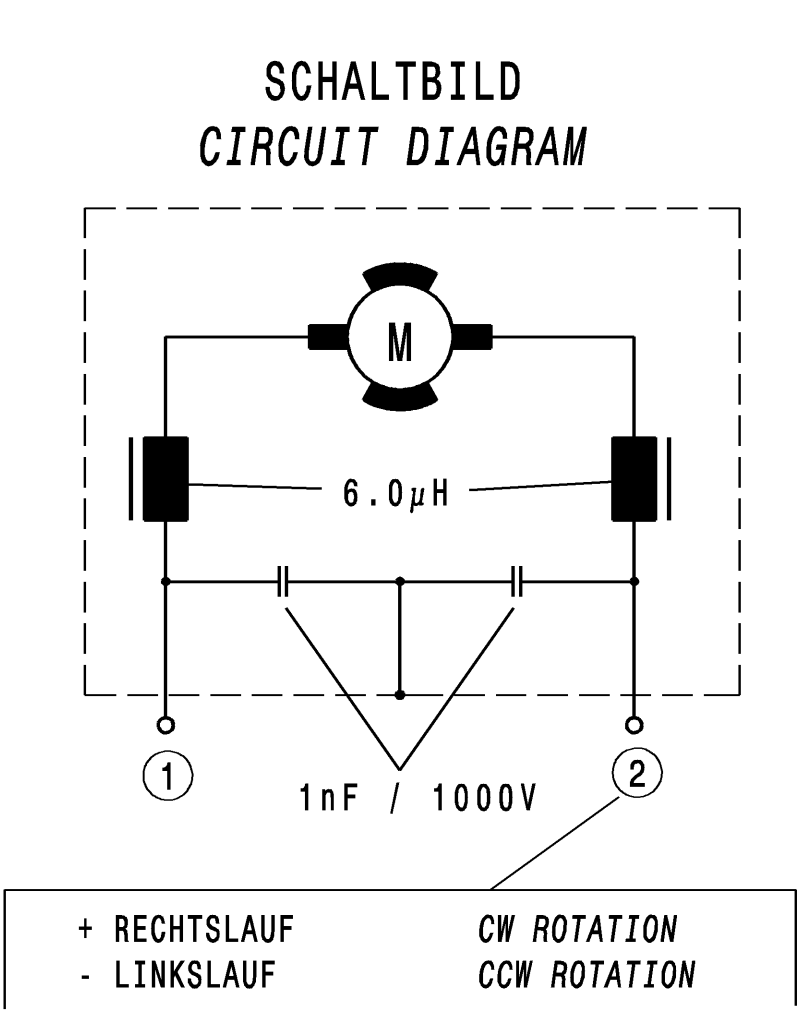
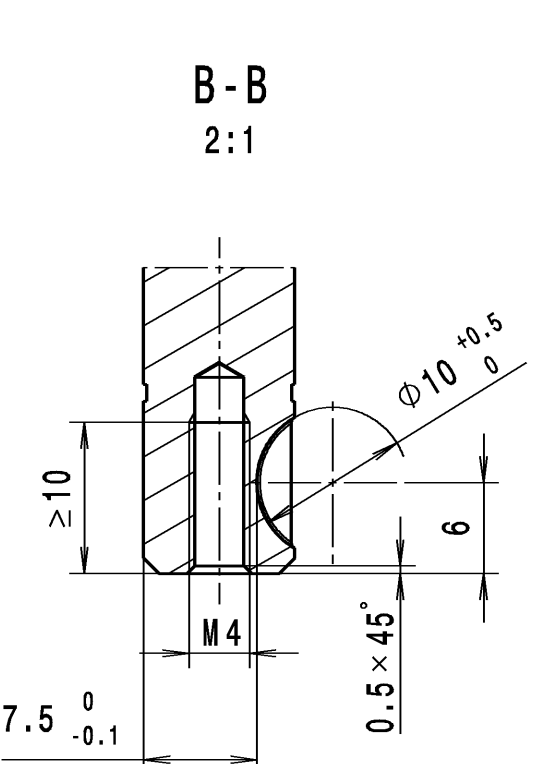
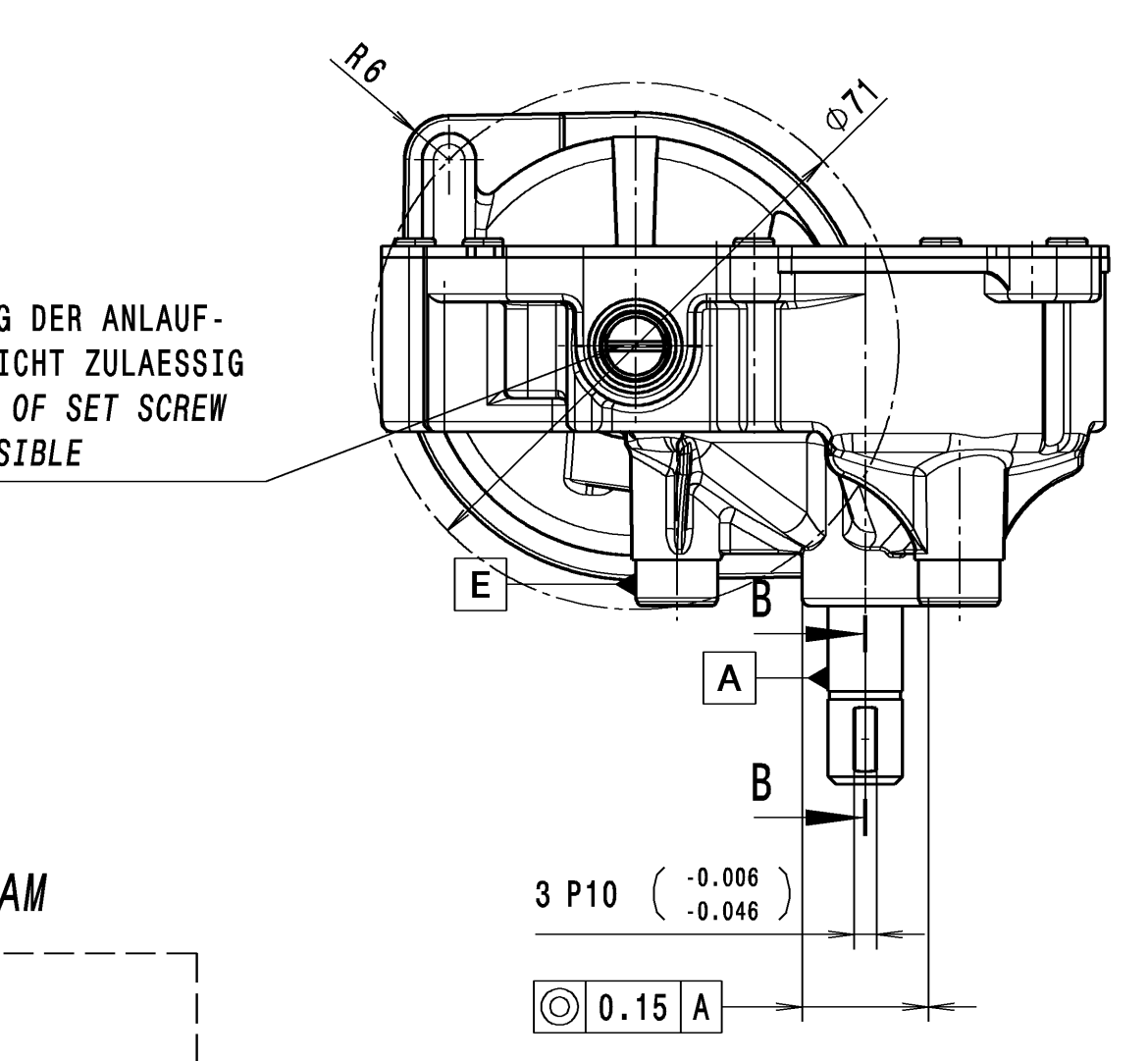
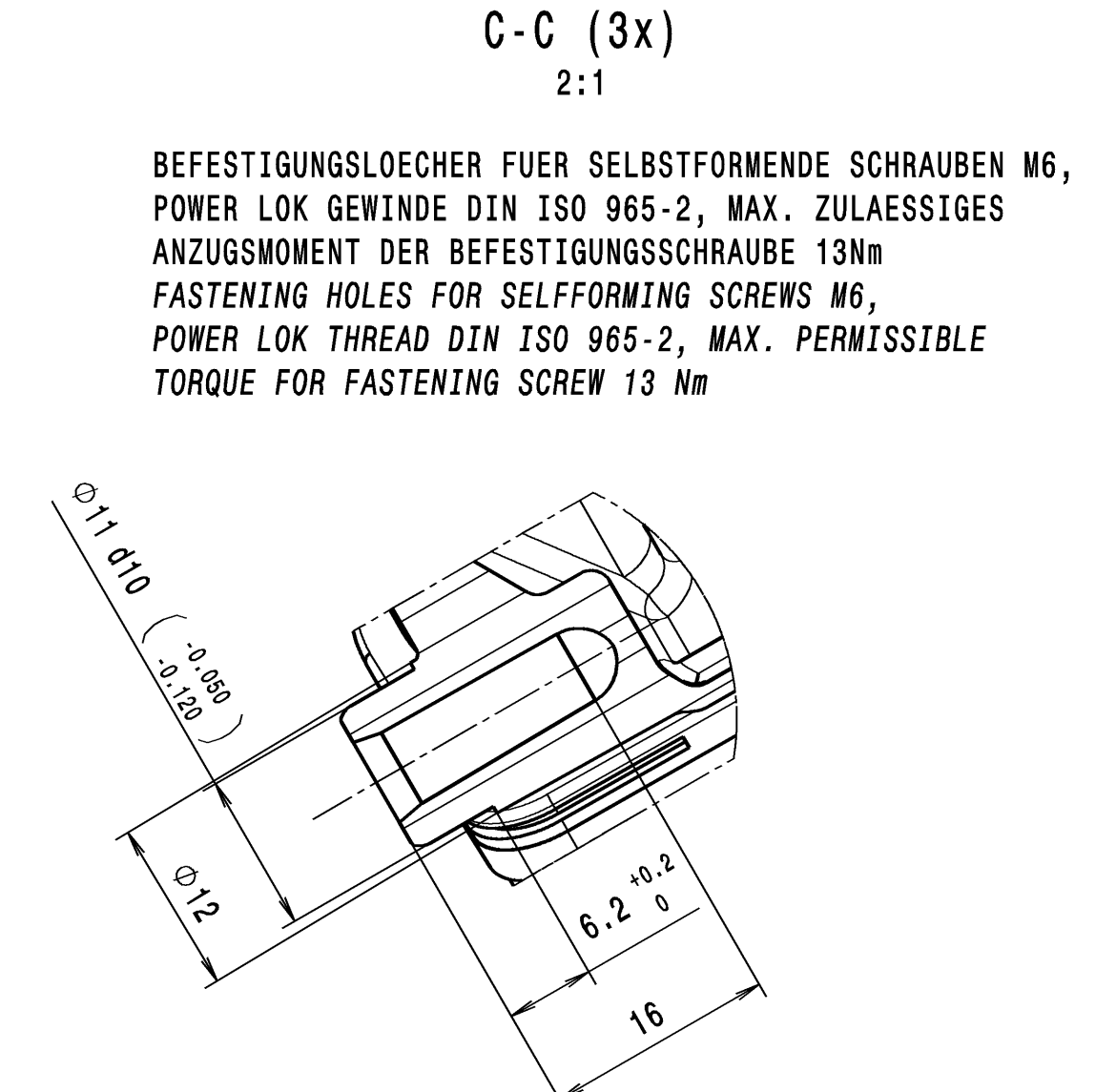
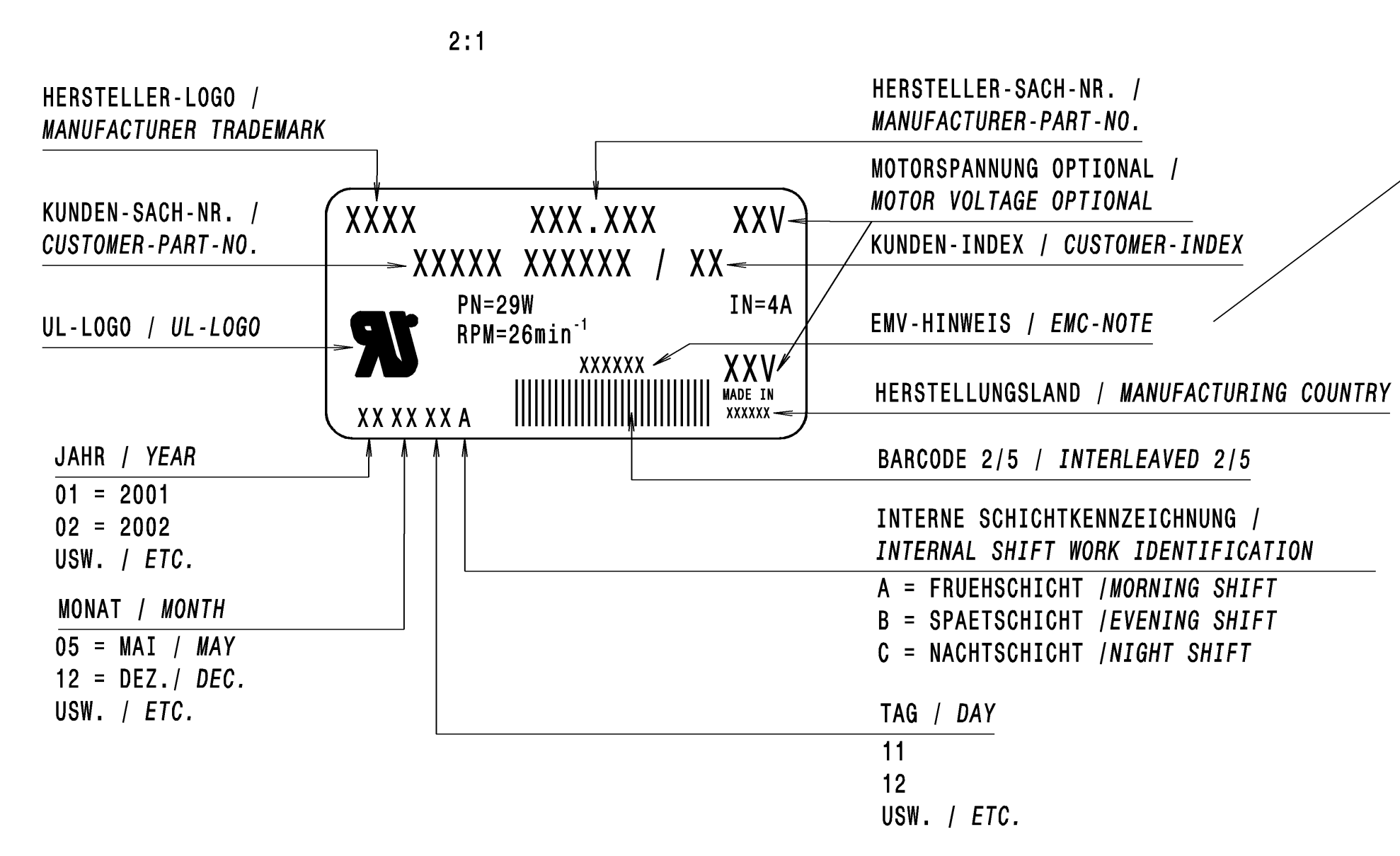
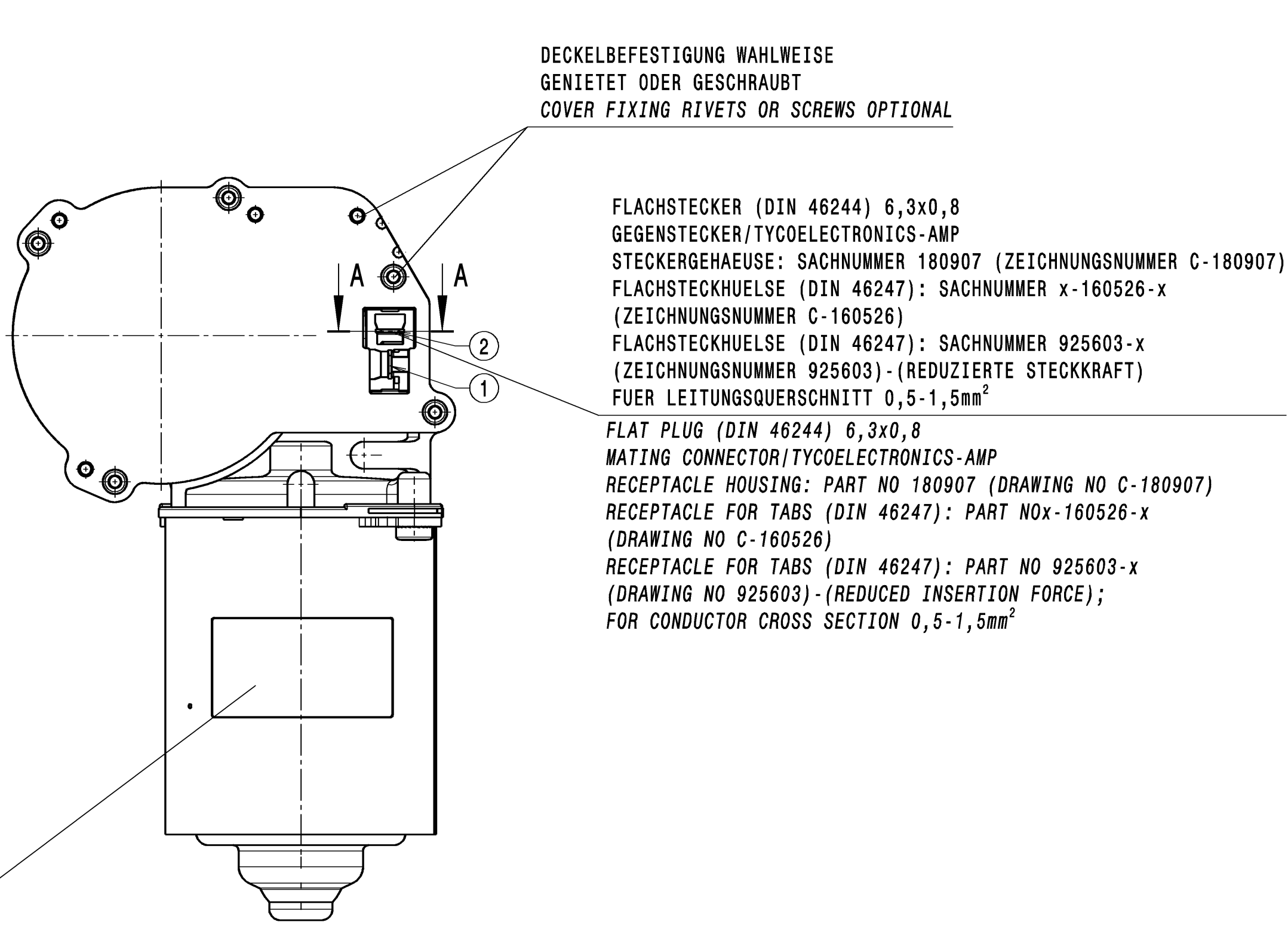
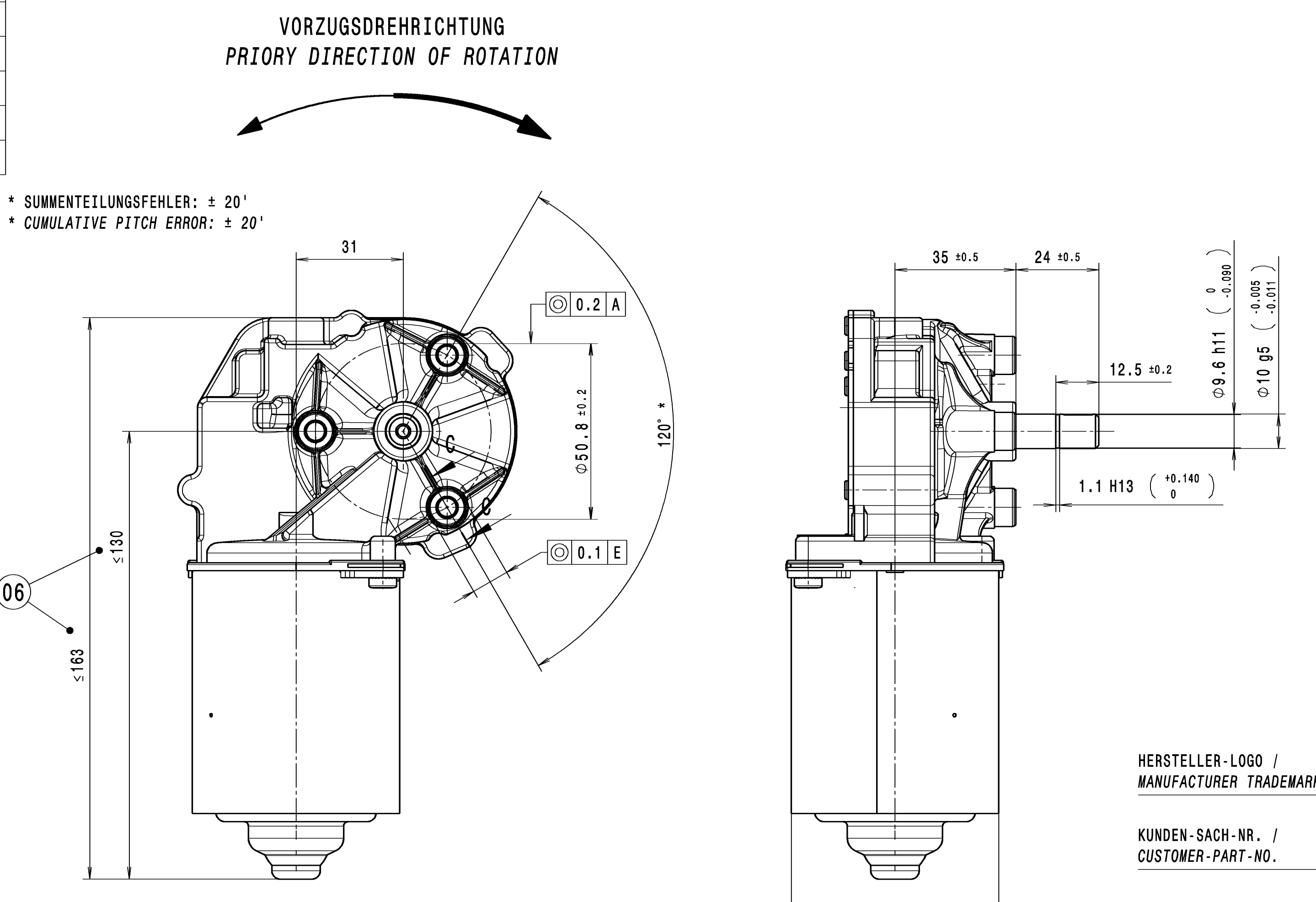


SPECIAL CHARACTERISTIC	QUANTITY
SRC	0
SC	0
FC	0
CD [CD]	0

REV. NO.	ZONE	DESCRIPTION	DATE	NAME
00001607		UMSTELLUNG GERÄTETS GEMÄSSE DCK31	2019-09-06	BAKARLEID



- A) GENERAL**
- \*\*1. TEST VOLTAGE UP = 24V DC
  - \*\*2. NO LOAD SPEED n0 = 31-39 min<sup>-1</sup>
  - \*\*3. NO LOAD CURRENT IO = MAX. NEW MOTOR 2.5A
  - 4. SHORT-CIRCUIT CURRENT IK ≥ 14A
  - 5. STARTING TORQUE MK ≥ 30Nm
  - 6. INFT SUPPRESSION = SEE DIAGRAM
  - 7. THERMAL SWITCH = NA
  - 8. ISOLATION TEST = 850V DC FOR 1sec.
  - 9. SELF LOCKING STATIC = NA
  - 10. RADIAL LOAD ON DRIVE SHAFT F = 80N
  - 11. AXIAL LOAD ON DRIVE SHAFT F = NA
  - 12. NOISE LEVEL = NA
  - 13. AMBIENT TEMPERATURE = -30°C TO +60°C
  - 14. PROTECTION IP = 30
  - 15. VIBRATION = NA

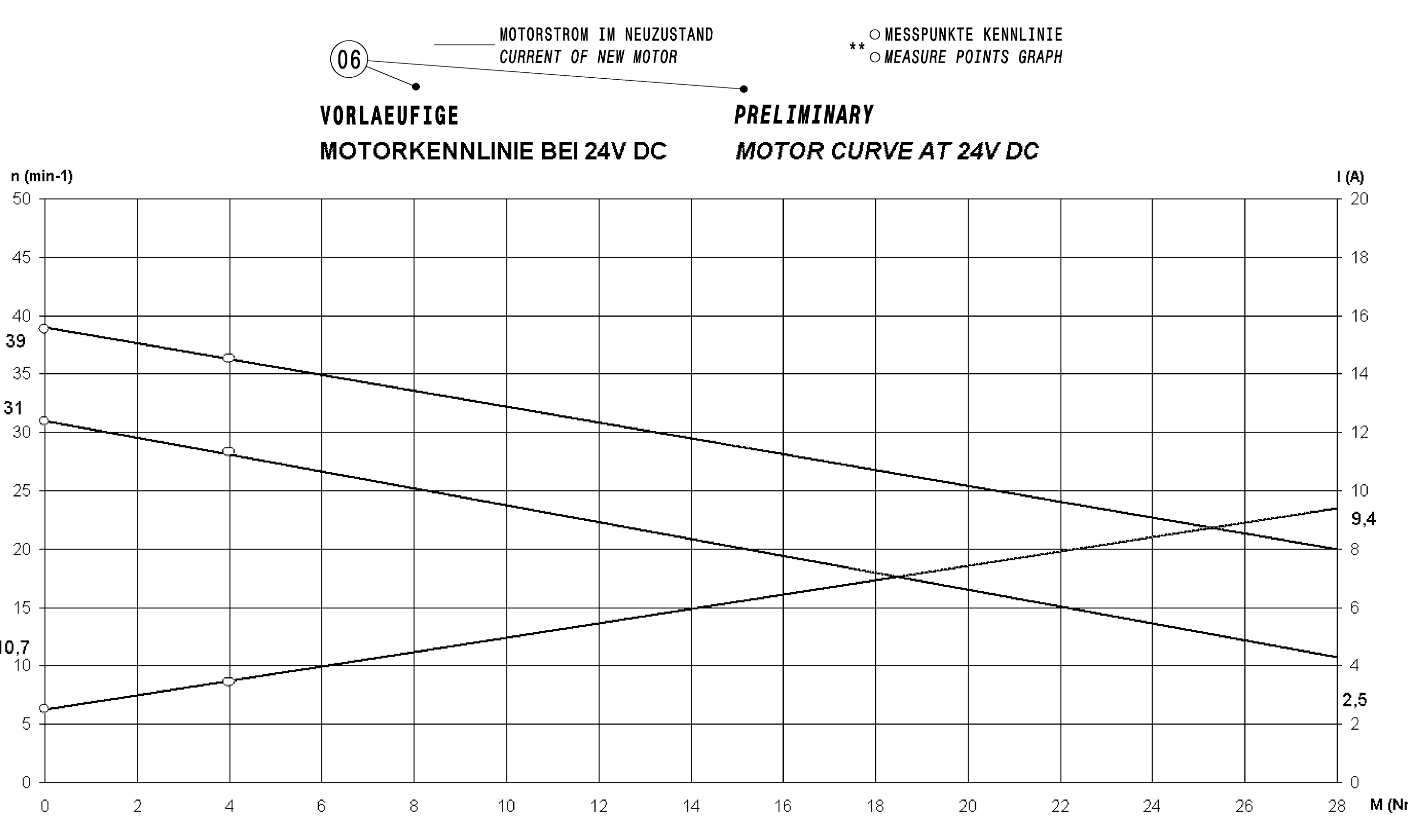
- A) ALLGEMEINES**
- \*\*1. PRUEFSPANNUNG UP = 24V DC
  - \*\*2. LEERLAUFDREHZAHL n0 = 31-39 min<sup>-1</sup>
  - \*\*3. LEERLAUFSTROM IO = MAX. IM NEUZUSTAND 2.5A
  - 4. BLOCKIERSTROM IK ≥ 14A
  - 5. BLOCKIERMOMENT MA ≥ 30Nm
  - 6. ENTSTOERBAUTEILE = SIEHE DIAGRAM
  - 7. THERMOSCHALTER = NA
  - 8. ISOLATIONSPRUEFUNG = 850V DC FUER 1sec.
  - 9. BETRIEBBEHUEMUNG STATISCH = NA
  - 10. RADIALBELASTUNG DER ABTRIEBSWELLE F = 80N
  - 11. AXIALBELASTUNG DER ABTRIEBSWELLE F = NA
  - 12. GERAUESCHPEGEL = NA
  - 13. UMGEBUNGSTEMPERATUR = -30°C- BIS +60°C
  - 14. SCHUTZART IP = 30
  - 15. VIBRATION = NA

- B) RUNNING DATA**
- OPERATING TORQUE (NOW. LOAD) MN = 6Nm CW+CCW
  - OPERATING TORQUE (MAX. LOAD) MNMAX = 14Nm CW+CCW
  - CURRENT RESTRICTED = 7A
- C) LIFE TEST**
- 1. CYCLE (DEFINITION) = ON (CW) 15sec. - BREAK 35sec. = OFF (CCW) 15sec. - BREAK 35sec.
  - 2. TEST VOLTAGE = 22 V DC
  - 3. TEST TORQUE = 6 Nm WITH RADIAL LOAD
  - 4. TEST TEMPERATURE = RT
  - 5. TEST POSITION = ANY
  - 6. EXTERNAL COOLING = AS REDUCTION THE BREAKS PERMISSIBLE
  - 7. MIN. LIFE TIME = 40 000 CYCLES
  - 8. PERFORMANCE AFTER LIFE TEST = DIFFERENCE TILL 10% PERMISSIBLE

- B) BETRIEBSDATEN**
- NENNOMENT (NENNLAST) MN = 6Nm RL+LL
  - NENNOMENT max. WERT MNmax = 14Nm RL+LL
  - STROMBEGRENZUNG = 7A
- C) LEBENSDAUERPRUEFUNG**
- 1. ZYKLUS (DEFINITION) = AUF (RL) 15sec. - PAUSE 35sec. ZU (LL) 15sec. - PAUSE 35sec.
  - 2. PRUEFSPANNUNG = 22 V DC
  - 3. PRUEFMOMENT = 6 Nm MIT RADIALLAST
  - 4. PRUEFTEMPERATUR = RT
  - 5. PRUEFLAGE = BELIEBIG
  - 6. FREMKUEHLUNG = ZUR VERKUEHLUNG DER PAUSEN ZULAESSIG
  - 7. MIN. LEBENSDAUER = 40 000 ZYKLEN
  - 9. LEISTUNG NACH LEBENSDAURTEST = ABWEICHUNG BIS 10% ZULAESSIG

- D) OTHER VALID DOCUMENTS**
- 1. GEN. SPECIFICATION INDUSTR. - MOTORS NIDEC ACC. SWF 46.402 (EDITION AT 09.04.1998)
  - ADDITIONAL REQUIREMENTS, WHICH ARE NOT CONTENT OF THE ABOVE SPECIFICATION, HAVE TO BE SECURED BY THE CUSTOMER.
  - FOR THIS ADDITIONAL REQUIREMENTS NIDEC CAN TAKE NO PRODUCT LIABILITY.

- D) MITGELTENDE UNTERLAGEN**
- 1. ALLG. SPEZIFIKATION INDUSTRIEMOTOREN NIDEC NACH SWF 46.402 (AUSGABE VOM 09.04.1998)
  - DARUEBERHINAUS GEHENDE ANFORDERUNGEN HAT DER KUNDE DURCH PRUEFUNG IM SYSTEM SICHERZUSTELLEN.
  - HIERFUER UEBERNIMMT NIDEC KEINE LIABILITY.



\*\* 100% PRUEFUNG KONTROLLPLAN NA NICHT ANGEWENDET  
\*\* 100% CHECKING CONTROL PLAN NOT APPLICABLE

GETRIEBEDATEN		GEAR DATA	
UEBERSETZUNG	RATIO	i	= 1:69
GANGZAHL	NO. OF STARTS	z1	= 1
ZAEHNEZAHL	NO. OF TEETH	z2	= 69
NORMALMODUL	NORMAL MODULE	mn	= 0.8
ZAHNRADATERIAL	GEAR WHEEL MATERIAL		= DELRIN 100
MATERIAL ABTRIEBSWELLE	MATERIAL DRIVE SHAFT		= C45P8 C DIN EN 10277
OBERFLAECHE	SURFACE FINISH		= VERQUETET HV-380-460
WERKSTOFF MOTOROPPLAGER:	SINTERBRONZE		HEAT TREATED HV-380-460
MATERIAL OF MOTOR HOUSING BEARING:	BRONZE		

MAX. GETRIEBEFESTIGKEIT STATISCH : 28Nm  
MAX. GETRIEBEFESTIGKEIT DYNAMISCH : 17Nm  
MAX. STATIC GEAR STRENGTH  
MAX. DYNAMIC GEAR STRENGTH

LIMIT DIMENSIONS FOR NOMINAL SIZE RANGES IN mm		TOLERANCES FOR NOMINAL SIZE RANGES IN mm		LIMIT DIM. FOR NOMINAL SIZE RANGES IN DEGREE/ MINUTE (SHORTER ANGLE SIDE)		TOLERANCES FOR NOMINAL SIZE RANGES		SURFACE FINISH ACC. TO SWF 00.091		SURFACE TEXTURE ACC. TO DIN EN ISO 1302		GEOMETRICAL PRODUCT SPECIFICATIONS (GPS) SIZE ISO 14405 (E)		STOCK MATERIAL		CUSTOMER REFERENCE NO.		MATERIAL SPECIFICATION ACC. TO SWF 10.1XX	
...-6	>6...30	0,1	0,2	0,3	0,5	0,8	1	1*	30	20*									
>30...120	>120...400	>400...1000																	
MATERIAL NO.		OLD SPAIN MATERIAL NO.		REFERENCE NO.		MATERIAL NO.		404-867-99-99		TITLE		MOTOR DCK31		ARTICLE NO.		MOTOR DCK31		0266	
ALL DIMENSIONS IN mm		SCALE		1:1		RELEASE-LEVEL		RELEASED		DT DOCUMENT NO.		10000009267		VERSION		06		SHEET	
DATE		25.09.2019		RELEASED		DATE		08.02.2020		DRAWN		BRUNN		CHECKED		BRUNN		DATE	
DRAWN		25.09.2019		RELEASED		DATE		08.02.2020		DRAWN		BRUNN		CHECKED		BRUNN		DATE	
DRAWN		25.09.2019		RELEASED		DATE		08.02.2020		DRAWN		BRUNN		CHECKED		BRUNN		DATE	

ITEM	MATERIAL NUMBER	QUANT.	TITLE	DOCUMENT NO.
17				
16				
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