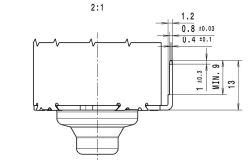
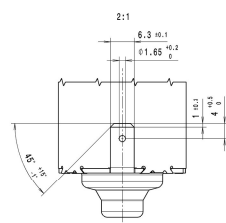
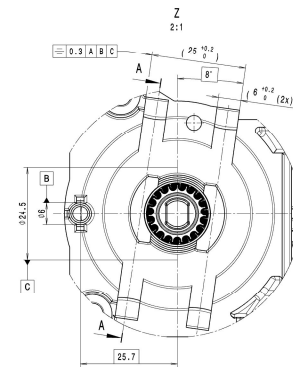
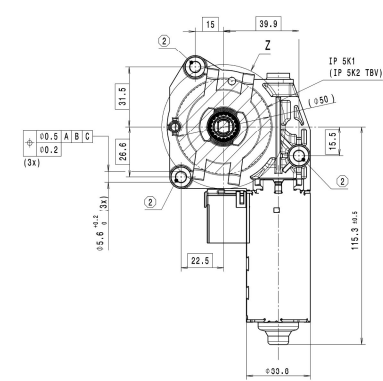
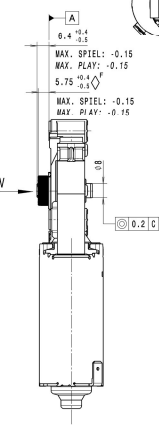
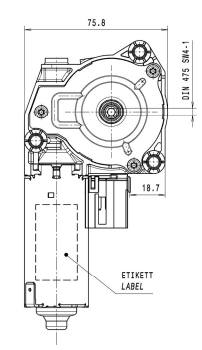
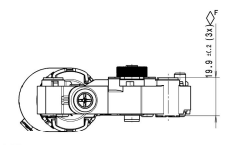
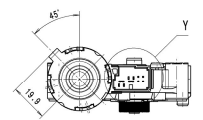


SPECIAL CHARACTERISTIC	QUANTITY
SRC	0
SC	0
FC	6

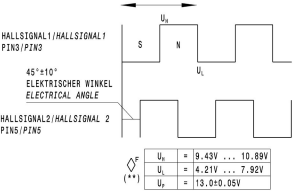
REV. NO.	ZONE	DESCRIPTION	DATE	NAME
0001042	0	ANLEGEZEICHNUNG	2015-10-27	BOENNINGER



** 100% PRUEFUNG DES WERKSTUECKES
 ** 100% TESTING OF ITEM
 ① - VERWEIS AUF BEZUG R
 ① - REFERS TO REFERENCE R
 ② - GEMITTELTE FLAECHE ALS BEZUG R
 ② - AVERAGED SURFACE AS REFERENCE R
 MESSPROZESS ALLER DEFINIERTEN MASSE
 SOLL ZWISCHEN NWA UND BOS ABGESPROCHEN WERDEN.
 MEASUREMENT PROCESS HAS TO BE DEFINED BETWEEN NWA AND BOS
 Ⓢ GERÄUSCHMESSUNG NACH CMS_405884_Vxx (**)
 NOISE MEASUREMENT ACC. TO CMS_405884_Vxx (***)

HALL AUSGANGSSIGNAL (CCW)
HALL SIGNAL OUT PUT (CCW)

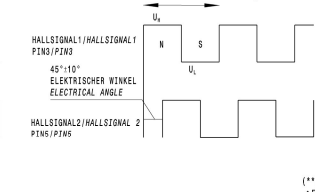
360° (ANKERDREHUNG) / 360° (ARMATURE TURN)
360° ELEKTRISCHER WINKEL / 360° ELECTRICAL ANGLE



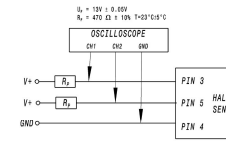
$U_{CCW} = 19.43V \dots 10.89V$
 $U_{CW} = 4.21V \dots 7.92V$
 $U_{H} = 13.010.05V$

HALL AUSGANGSSIGNAL (CW)
HALL SIGNAL OUT PUT (CW)

360° (ANKERDREHUNG) / 360° (ARMATURE TURN)
360° ELEKTRISCHER WINKEL / 360° ELECTRICAL ANGLE

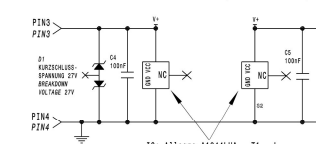


TESTSCHALTUNG HALL SENSOR
TESTING CIRCUIT HALL SENSOR

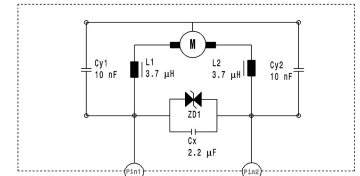


MOT1	MOT2	HALL
RECHTSDREHEND CW	-	+
LINKSDREHEND CCW	+	-

SCHALTBIELD HALL SENSOR (STROMGEGUEHRT)
HALL CIRCUIT DIAGRAM (CURRENT REGULATED)



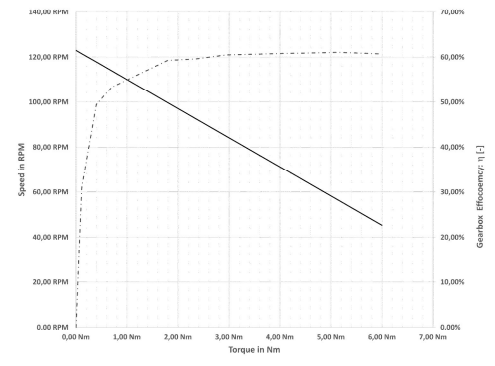
MOTOR SCHALTBIELD
MOTOR CIRCUIT DIAGRAM



UEBERSpannungsschutz bis 47V
BREAKDOWN VOLTAGE AT 47V

THEORETISCHE GETRIEBEWIRKUNGSRADGRADUE (NUR ZUR INFORMATION)
THEORETICAL GEARBOX EFFICIENCY CHARACTERISTIC (ONLY FOR INFORMATION)

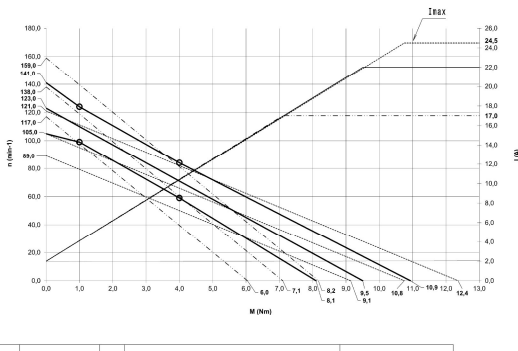
WIRKUNGSRADGRADUE / EFFICIENCY CURVE (+23±5°C):
MOTOR N-W CHARACTERISTIC / MOTOR N-T CURVE (+23±5°C):



PRUEFSPANNUNG: 13±0.2V
TEST VOLTAGE: 13±0.2V
VORWIDERSTAND Rv: 0Ω
RESISTANCE OF HARNESS Rv: 0Ω

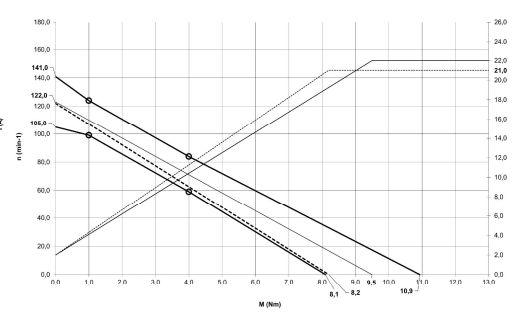
MOTORKENNLINIE
MOTOR CHARACTERISTIC

PRUEFSPANNUNG: 13±0.2V
 TEST VOLTAGE: 13±0.2V
 VORWIDERSTAND Rv: 0Ω
 RESISTANCE OF HARNESS Rv: 0Ω
 GETRIEBEVERSETZUNG: 2:72
 TRANSMISSION RATIO: 2:72



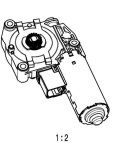
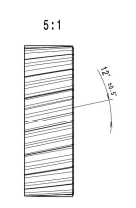
MOTORKENNLINIE MIT Rv
MOTOR CHARACTERISTIC WITH Rv

+23±5°C / 13V
 +23°C / 13V / Rv=0.07 Ω



VERZAEHNRADEN DATEN FUEHR ZAHNRAD R:
SPECIFICATION OF PINION R:

MODUL	m = 0.7825
ZAHNEZAHL	z = 19
ENKORFFSWINKEL	α = 5°
PROFILVERSCHIEBUNG	x = -0.05
ADDENDUM MOD. COEFF.	d = 015.2
TELLKREISDIAMETER	φ = 815.2
REFFERENCE CIRCLE DIAMETER	φ = 815.2
FUSSKREISDIAMETER	φ = 815.2
ROOT CIRCLE DIAMETER	φ = 815.2
ZAHNFUSSRADIUS	r_f = 0.5
FEILET RADIUS	r_k = 0.2
ZAHNKOPFRADIUS	r_k = 0.2
TIP RADIUS	r_k = 0.2
PRUEFMASS UEBER 2 ZAEHNE	W = 3.67 ^{±0.04}
DISTANCE MEASURED ACROSS 2 TEETH	W = 3.67 ^{±0.04}



LENZT DIMENSIONS FOR NOMINAL SIZE RANGES IN mm	...	...	...	...	...
TOLERANCES FOR NOMINAL SIZE RANGES IN mm	...	...	...	...	...
TOLERANCES FOR NOMINAL SIZE RANGES IN DEGREE MINUTE (FRONT ANGLE SIZE)	...	...	...	...	...
TOLERANCES FOR NOMINAL SIZE RANGES	...	...	...	...	...

SURFACE TEXTURE ACC. TO DIN EN ISO 1302	FINISH ACC. TO ISO 1302
GEOMETRICAL PRODUCT SPECIFICATIONS (GPS) SIZE ISO 14481 (E)	GEOM. TOLERANCES ACC. TO DIN EN ISO 1101
STRECKWERKZEUG	GEOM. TOLERANCES ACC. TO DIN EN ISO 1101
CUSTOMER REFERENCE NO. 9910000888 00	
MATERIAL SPECIFICATION	WOM FOR MATERIAL SPECIFICATION
MATERIAL NO. 405-884-99-99	OLD DRAWING MATERIAL NO.
REFERENCE NO. 4E 4392 C 000	ARTICLE NO. 0287
SCALE 1:1	TITLE MOTOR C3MG
RELEASED	DATE
10000021518	00 1 1
10.01.2016	10.01.2016