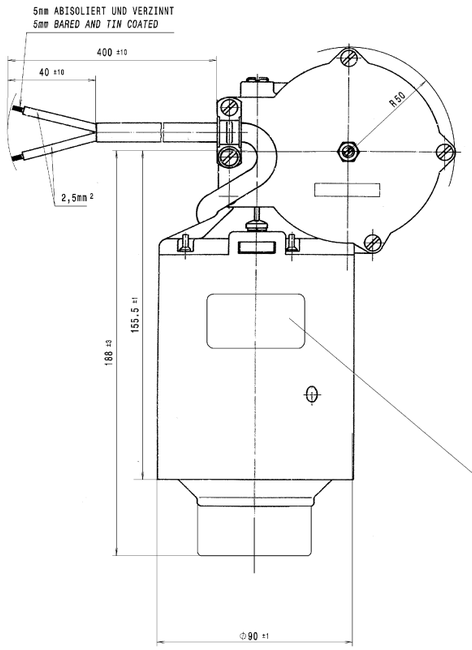
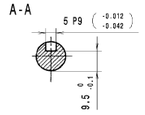
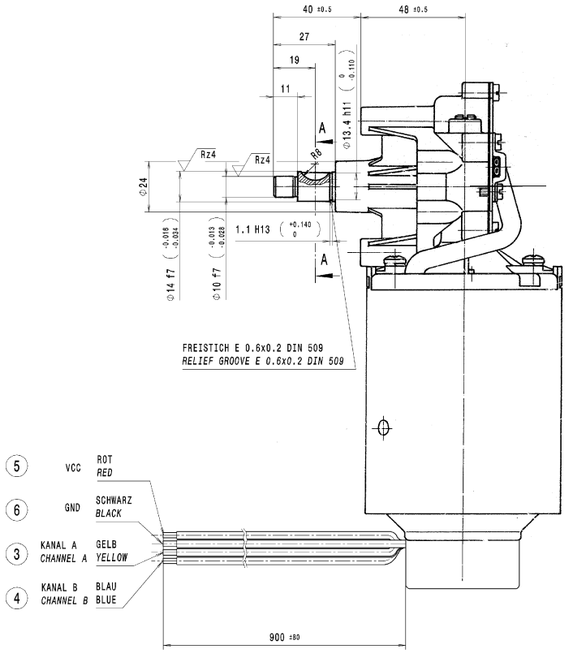
SAMPLING AND RELEASE ACCORDING TO EN 24 02 AND NMA SUPPLIER MANUAL

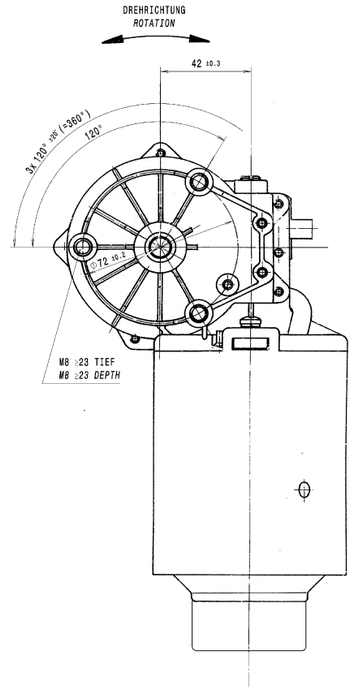
SPECIAL CHARACTERISTIC	QUANTITY
▽	0
◆	0
◇	0

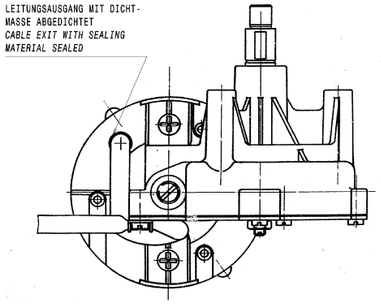
REV. NO.	ZONE	REVISION		DATE	NAME
00	000060000557		NEUEINFUEHRUNG	INTRODUCTION	2011-11-08	BAEUERLEG











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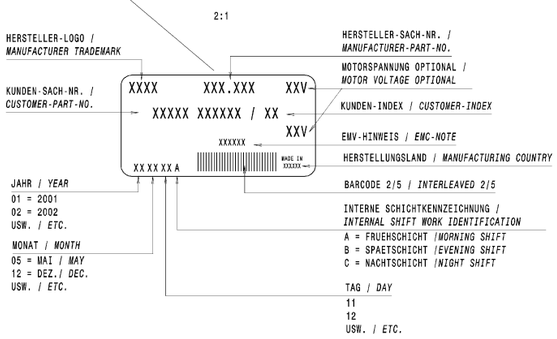
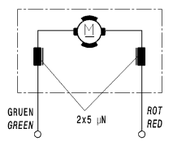


SCHALTBILD MOTOR
CIRCUIT DIAGRAM MOTOR



GRUEN *GREEN* + LINKSLAUF
ROT - *LEFT-HANDED ROTATION*
RED

GRUEN *GREEN* - RECHTSLAUF
ROT + *RIGHT-HANDED ROTATION*
RED

A) ALLGEMEINES

1. PRUEFSPANNUNG	UP	= 24V DC
2. LEERLAUFDREHZAHL	nO	= 65...81 min-1
3. LEERLAUFSTROM	IO	= 8A
4. ENTSTOERBAUTEILE		= SIEHE DIAGRAMM
5. GETRIEBEHEMMUMG STATISCH		= TBD
6. RADIALBELASTUNG DER ABTRIEBSWELLE	F	= 150N
7. AXIALBELASTUNG DER ABTRIEBSWELLE	F	= 15N
8. UMGEBUNGSTEMPERATUR		= 0°C BIS +45°C
9. VIBRATION		= KEINE

B) BETRIEBSDATEN

NENNMOMENT	MN	= 10Nm
MAX. DREHMOMENT	MMAX	= 25Nm

C) LEBENSDAUERPRUEFUNG

1. ZYKLUS		= LINKSLAUF 40 SEC - PAUSE 180 SEC- RECHTSLAUF 40 SEC - PAUSE 30 SEC
2. PRUEFMOMENT		= 10Nm
3. LEBENSDAUER		= ≥50 000 ZYKLEN
4. BLOCKLAUF		= NA

D) MITGELTENDE UNTERLAGEN

1. ALLG. SPEZIFIKATION INDUSTRIEMOTOREN NIDEC NACH SWF 46.402 (AUSGABE VOM 09.04.1998) DARUEBERHINAUS GEHENDE ANFORDERUNGEN HAT DER KUNDE DURCH PRUEFUNGEN IM SYSTEM SICHERZUSTELLEN. HIERFUER UEBERNIMMT NIDEC KEINE HAFTUNG.

A) GENERAL

1. TEST VOLTAGE	*UP*	*= 24V DC*
2. NO LOAD SPEED	*nO*	*= 65...81 min-1*
3. NO LOAD CURRENT	*IO*	*= 8A*
4. RFI SUPPRESSION		*= SEE DIAGRAM*
5. SELF LOCKING STATIC		*= TBD*
6. RADIAL LOAD ON DRIVE SHAFT	*F*	*= 150N*
7. AXIAL LOAD ON DRIVE SHAFT	*F*	*= 15N*
8. TEMPERATURE		*= 0°C TO +45°C*
9. VIBRATION		*= NO*

B) RUNNING DATA

OPERATING TORQUE	*MN*	*= 10Nm*
MAX. TORQUE	*MMAX*	*= 25Nm*

C) LIVE TEST

1. CYCLE DEFINITION		*= CCW 40 SEC - BREAK 180 SEC CW 40 SEC - BREAK 30 SEC*
2. TEST TORQUE		*= 10Nm*
3. LIFE TIME		*= ≥50 000 CYCLES*
4. BLOCK RUN		*= NA*

D) OTHER VALID DOCUMENTS

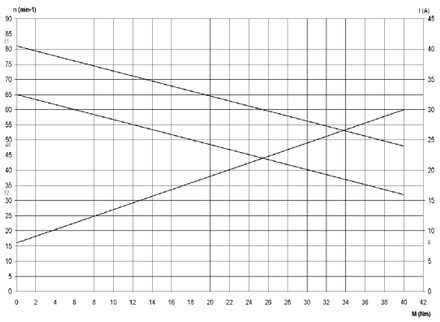
GEN. SPECIFICATION INDUSTR.- MOTORS NIDEC ACC. SWF 46.402 (EDITION AT 09.04.1998) ADDITIONAL REQUIREMENTS, WHICH ARE NOT CONTENT OF THE ABOVE SPECIFICATION, HAVE TO BE SECURED BY THE CUSTOMER. FOR THIS ADDITIONAL REQUIREMENTS NIDEC CAN TAKE NO PRODUCT LIABILITY.

NA | NICHT ANGEWENDET / *NOT APPLICABLE* | KONTROLL PLAN / *CONTROL PLAN*

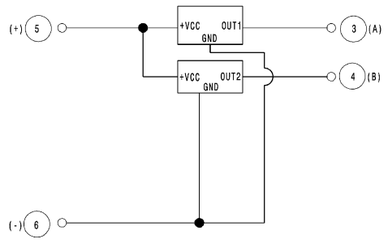
MOTORKENNLINIE
MOTOR CURVE

KENNLINIE
CHARACTERISTIC

NENNSPANNUNG :24 V
NOMINAL VOLTAGE
PRUEFSPANNUNG :24 V
TEST VOLTAGE



SCHALTBILD ENCODER
CIRCUIT DIAGRAM ENCODER



DATEN HALL IC - 2 KANAL
DATA OF HALL IC -2 SIGNAL CHANNEL

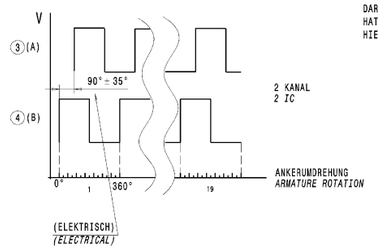
SPANNUNGSBEREICH: *VOLTAGE RANGE*	Up = 3 - 24V
STROMAUFNAHME: *CURRENT CONSUMPTION*	MAX.8mA
TEMPERATURBEREICH: *TEMPERATURE RANGE*	= -20°C - +60°C
AUSGANG: *OUTPUT:*	= 19 IMPULS PRO UMDREHUNG DER ANKERWELLE = *19 PULSE PER REVOLUTION OF ARMATURE*

AUSGANGSSIGNAL
OUTPUT SIGNAL

AUSGANG: *OUTPUT*	= OFFENER KOLLEKTOR = *OPEN COLLECTOR*
AUSGANGSSTROM: *OUTPUT CURRENT:*	MAX. 20mA

TASTVERHAELTNIS DER AUSGANGSSIGNALE : 50% ± 10%
PULS DUTY FACTOR OF OUT-PUT SIGNAL

AUSGANGSSIGNAL REIHENFOLGE BEI CW
OUTPUT SIGNAL SEQUENCE AT CW



VERZAHNUNGSDATEN *GEAR TOOTH DATA*

UEBERSETZUNG	*RATIO*	i	= 1:59
GANGZAHL	*NO. OF STARTS*	z1	= 1
ZAEHNEZAHL	*NO. OF TEETH*	z2	= 59
ZAHNRADMATERIAL	*GEAR WHEEL MATERIAL*		= HARTGEWEBE / *HARDPAPER*

ITEM	MATERIALNUMBER	QUANT.	TITLE	DOCUMENT NO.

NOM. DIM.	...6	>6...30	>30...120	>120...400	>400...1000
GEN. TOLERANCES ±	0,1	0,2	0,3	0,5	0,8
REF. SIDE		...10	>10...50	>50...100	>100
GEN. ANGLE TOLERANCE ±		1°	30'	20'	10'

SURFACE FINISH TO SWF 00.051
SURFACE TEXTURE TO DIN EN ISO 1302 | EDGES TO ISO 13715 | GEOM. DIM. & TOL. TO DIN EN ISO 1101
STOCK MAT.
CLIENT REF NO.
CLIENT MOD. NO. | CLIENT MOD. DATE
MATERIAL SPEC. NO
MATERIAL 405-715-99-99 | MATERIAL OLD | REF. NR.
ALL DIMENSIONS IN mm

SCALE 1 : 1
RELEASE-LEVEL In Arbeit

TYPE MOTOR SWMV / *MOTOR SWMV* | CAT. 0291

VAR	DOCUMENT NO.	VERSION	SHEET	OF	FORMAT
	10000015301	00	1	1	A0

	DATE	NAME
DRAWN	09.11.2011	BAEUERLEG
CHECKED		
RELEASED		

NIDEC MOTORS & ACTUATORS (GERMANY) SERVOSTRASSE 9 D-74321 BIETIGHEIM
SUB. FOR 4E 4148 A 000
SUB. BY

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