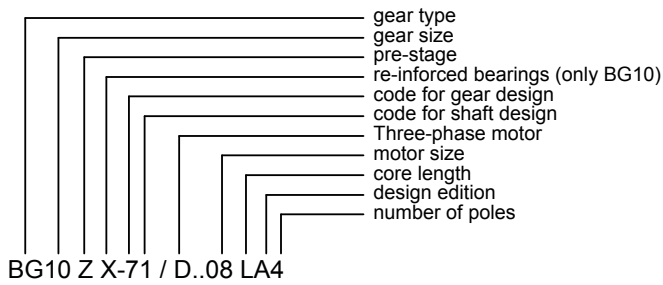






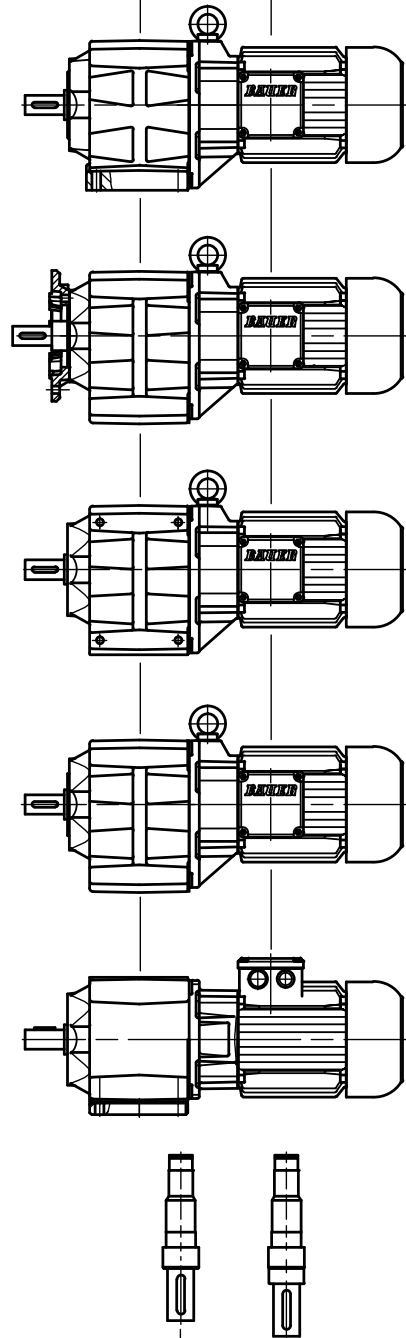
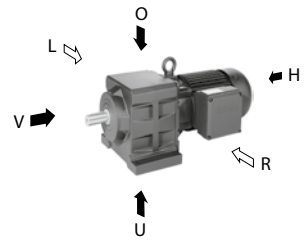
# Type Designations

## BG-series helical-gear motor



- Z- . . . . . gear with pre-stage
- G- . . . . . tandem gear
- 1 . . . . . foot with through holes
- 2 . . . . . small A-flange with through holes
- 3 . . . . . standard A-flange with through holes
- 4 . . . . . large A-flange with through holes
- 6 . L . . . . . foot with threaded holes, left
- 6 . R . . . . . foot with threaded holes, right
- 6 . LR . . . . . foot with threaded holes, left and right
- 7 . . . . . C-flange with threaded holes
- 8 . . . . . completely machined
- 9 . L . . . . . footplate, left
- 9 . R . . . . . footplate, right
- 9 . LR . . . . . footplate, left and right

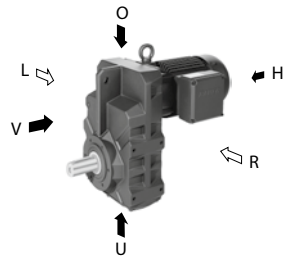
- . 1 solid shaft on gear side V
- . 7 solid shaft on gear side V for flange as from BG10
- . . W double shaft seals



# Type Designations

## BF-series shaft-mounted geared motor

3



gear type  
 gear size  
 pre-stage  
 re-inforced bearing (≥BF60)  
 code for gear design  
 code for shaft design  
 Three-phase motor  
 motor size  
 core length  
 design edition  
 number of poles

BF70 Z X-74 / D..11 LA4

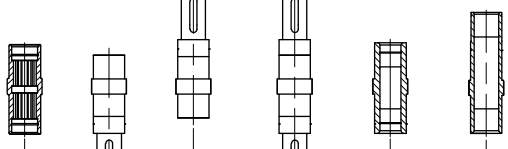
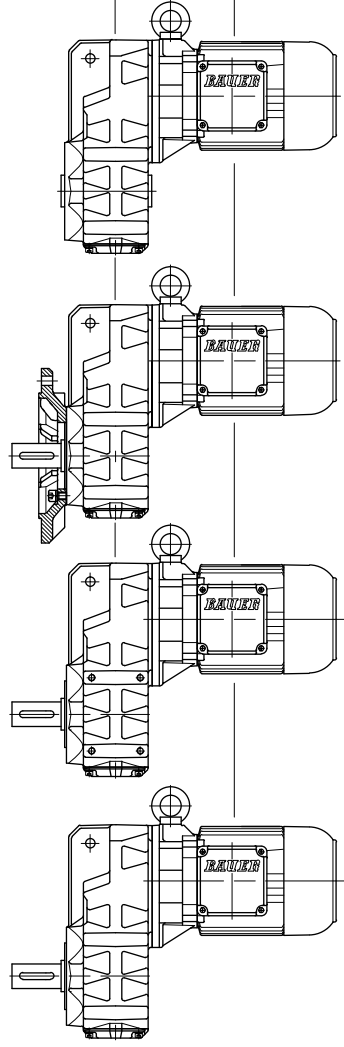
Z... gear with pre-stage  
 X... gear with reinforced bearings  
 G... tandem gear  
 0 . cast-in torque arm

2 . small A-flange with through holes  
 3 . standard A-flange with through holes  
 4 . large A-flange with through holes

1 . LR foot with through holes, right and left  
 6 . L foot with threaded holes, left  
 6 . R foot with threaded holes, right  
 6 . LR foot with threaded holes, right and left

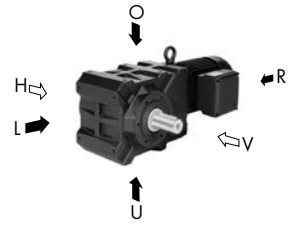
7 . C-flange with threaded holes  
 8 . completely machined

. 0 splined shaft acc. DIN 5480  
 . 1 solid shaft on gear side V  
 . 2 solid shaft on gear side H  
 . 3 solid shaft on gear side V and H  
 . 4 hollow shaft with keyway  
 . 5 hollow shaft with shrink disk SSV on side H  
 . . W double shaft seals  
 . . A cover for shrink disk SSV



# Type Designations

## BK-series bevel-gear motor

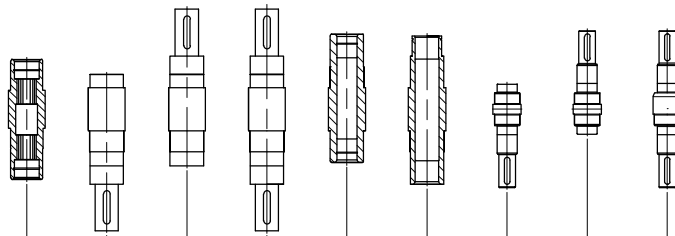
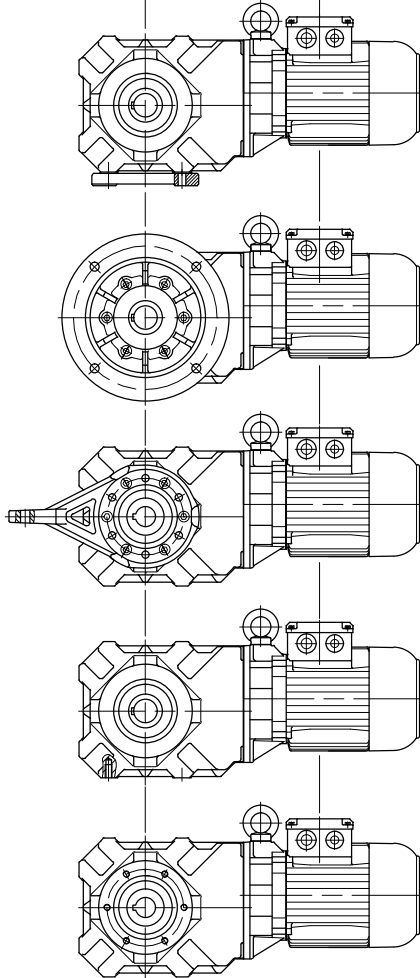


3

gear type  
 gear size  
 pre-stage  
 re-reinforced bearing (≥BK20)  
 code for gear design  
 code for shaft design  
 Three-phase motor  
 motor size  
 core length  
 design edition  
 number of poles

BK20 Z X-64U / D06 LA4

- 1 . U ——— foot with through holes, bottom
- 1 . L ——— foot with through holes, left
- 1 . O ——— foot with through holes, top
  
- 2 . V ——— small A-flange with through holes, front
- 3 . V ——— standard A-flange with through holes, front
- 4 . V ——— large A-flange with through holes, front
- .. H ——— A-flange, rear
- .. VH ——— A-flange, front and rear
  
- 5 . V ——— torque arm, front
- 5 . VL ——— torque arm, front to left
- 5 . VO ——— torque arm, front to top
- 5 . VU ——— torque arm, front to bottom
- 5 . HL ——— torque arm, rear to left
- 5 . HO ——— torque arm, rear to top
- 5 . HU ——— torque arm, rear to bottom
  
- 6 . U ——— foot with threaded holes, bottom
- 6 . L ——— foot with threaded holes, left
- 6 . O ——— foot with threaded holes, top
  
- 7 . V ——— C-flange with threaded holes, front
- 7 . H ——— C-flange with threaded holes, rear
- 7 . VH ——— C-flange with threaded holes, front and rear
- 8 . ——— completely machined

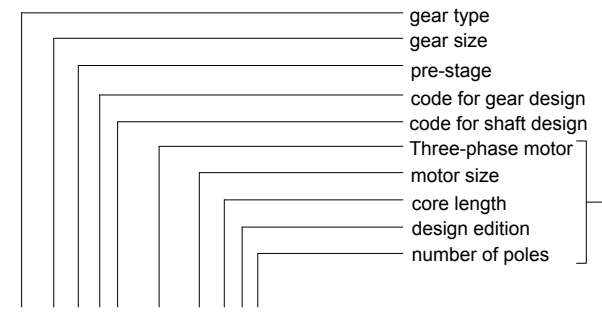
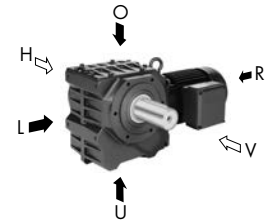


- . 0 Splined shaft acc. DIN 5480
- . 1 solid shaft on gear side V
- . 2 solid shaft on gear side H
- . 3 solid shaft on gear side V and H
- . 4 hollow shaft with keyway
- . 5 hollow shaft with shrink disk SSV on gear side H
- . 7 solid shaft at gear side V for flange (only BK06)
- . 8 solid shaft at gear side H for flange (only BK06)
- . 9 solid shaft at gear side V and H for flange (only BK06)
- .. W double shaft seals
- .. A cover for shrink disk SSV

# Type Designations

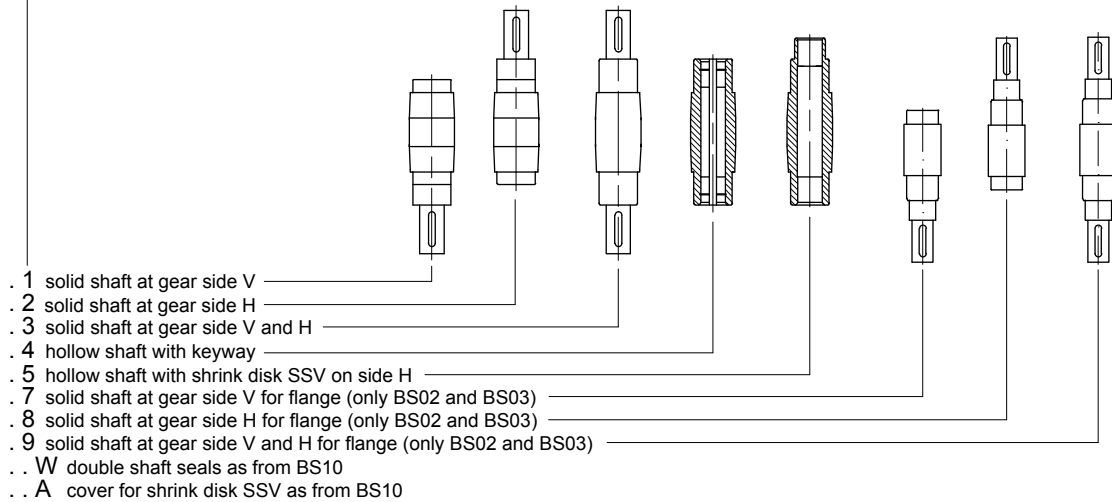
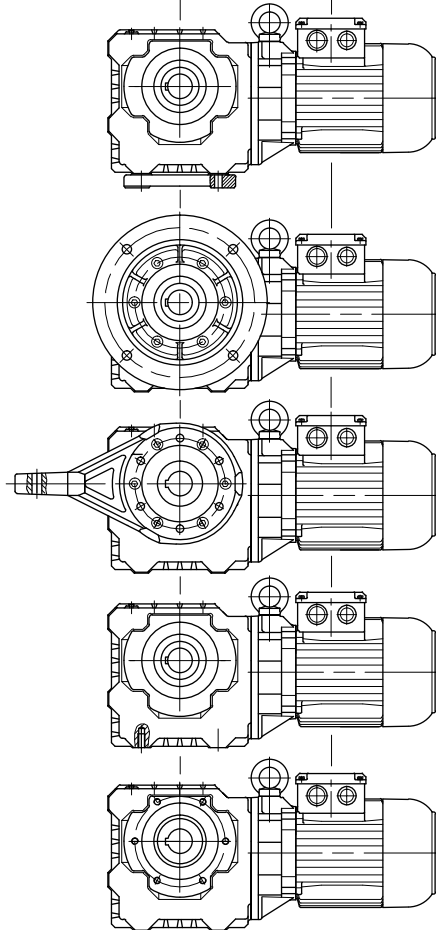
## BS-series worm-geared motor

3



BS40 Z-64U/ D..08 LA4

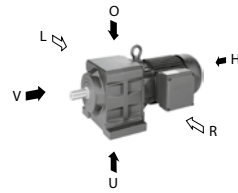
- 1 . U ———— foot with through holes, bottom
- 1 . L ———— foot with through holes, left
- 1 . O ———— foot with through holes, top
  
- 2 . V ———— small A-Flange with through holes, front
- 3 . V ———— standard A-Flange with through holes, front
- 4 . V ———— large A-Flange with through holes, front
- .. H ———— A-flange, rear (standard flange)
- .. VH ———— A-flange, front and rear (standard flange)
  
- 5 . V ———— torque arm, front
- 5 . VL ———— torque arm, front to left
- 5 . VO ———— torque arm, front to top
- 5 . VU ———— torque arm, front to bottom
- 5 . HL ———— torque arm, rear to left
- 5 . HO ———— torque arm, rear to top
- 5 . HU ———— torque arm, rear to bottom
  
- 6 . U ———— foot with threaded holes, bottom
- 6 . L ———— foot with threaded holes, left
- 6 . O ———— foot with threaded holes, top
  
- 7 . V ———— C-flange with threaded holes, front
- 7 . H ———— C-flange with threaded holes, rear
- 7 . VH ———— C-flange with threaded holes, front and rear
- 8 . ———— completely machined



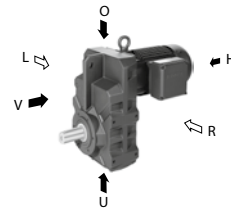
- . 1 solid shaft at gear side V
- . 2 solid shaft at gear side H
- . 3 solid shaft at gear side V and H
- . 4 hollow shaft with keyway
- . 5 hollow shaft with shrink disk SSV on side H
- . 7 solid shaft at gear side V for flange (only BS02 and BS03)
- . 8 solid shaft at gear side H for flange (only BS02 and BS03)
- . 9 solid shaft at gear side V and H for flange (only BS02 and BS03)
- .. W double shaft seals as from BS10
- .. A cover for shrink disk SSV as from BS10

## BG and BF series

BG series: mounting position B3



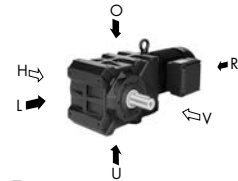
BF series: mounting position H4



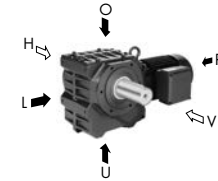
- V = Front  
The side of the gear unit facing away from the motor or the source of motive power
- H = Rear  
The side of the gear unit facing toward the motor or the source of motive power
- L = Left  
The left side of the gear unit as viewed from the output shaft side of mounting position B3 for the BG series or mounting position H4 for the BF series
- R = Right  
The right side of the gear unit as viewed from the output shaft side of mounting position B3 for the BG series or mounting position H4 for the BF series

## BK and BS series

BK series: mounting position H1



BS series: mounting position H1

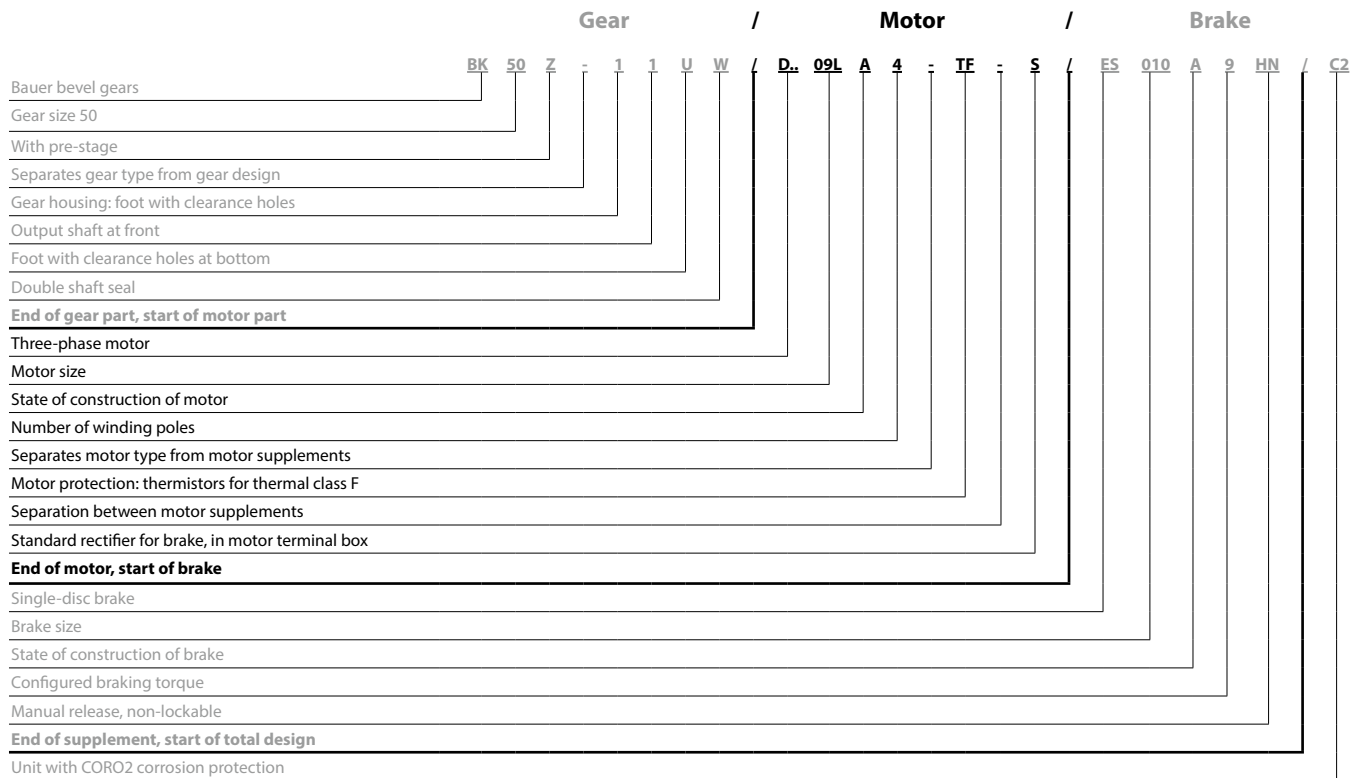


- V = Front  
The side of the gear unit facing toward the viewer looking toward the unit - mounting position H1
- H = Rear  
The side of the gear unit facing away from the viewer looking toward the unit - mounting position H1
- L = Links  
The left side of the gear unit as viewed from the output shaft side of mounting position H1, or the torque arm oriented to the left
- O = Top  
The top side of the gear unit as viewed from the output shaft side of mounting position H1, or the torque arm oriented upwards
- U = Bottom  
The bottom side of the gear unit as viewed from the output shaft side of mounting position H1, or the torque arm oriented downwards

# Type Designations

## Motor & Motor options

3



### Three-phase motor

D	=	Three-phase motor
E	=	Single-phase motor (Steinmetz circuit)
S	=	PM-Synchronous motor
. A	=	Aseptic motor (germ-free drive)
. SE	=	Three-phase motor with enhanced efficiency compliant with IE1
. HE	=	Three-phase motor with enhanced efficiency compliant with IE2
. PE	=	Three-phase motor with enhanced efficiency compliant with IE3
. N	=	Motor without gear unit; foot-mount version
. NF	=	Motor without gear unit; flange-mount version
. R	=	Roller table motor
. XE	=	Explosion-proof motor with increased safety
. XD	=	Explosion-proof motors
. W	=	Torque motor
. L	=	Special rotor for traction and slewing gear motors
. C	=	With main and auxiliary windings; only with single-phase motors (EC....)
. V	=	Multiple voltage ranges (wide voltage range)
. U	=	Unventilated (no forced ventilation)

### Motor protection

TB	=	Thermistor 140°
TF	=	Thermistor 160°
TH	=	Thermistor 180°
TEB	=	Thermistor warning/shutdown 120°/140°
TBF	=	Thermistor warning/shutdown 140°/160°
TFH	=	Thermistor warning/shutdown 160°/180°
TOB	=	Thermostatic switch, NC 140°
TOF	=	Thermostatic switch, NC 160°
TOH	=	Thermostatic switch, NC 180°
TSB	=	Thermostatic switch, NO 125°
TSF	=	Thermostatic switch, NO 160°
TSH	=	Thermostatic switch, NO 180°
TX	=	Other

### Brake rectifier in motor terminal box

S	=	Standard rectifier	SG
E	=	Special rectifier	ESG
M	=	Special rectifier	MSG
ST	=	Harting (other)	

### Plug connector

SL

### Heavy-duty fan

D

### Protective cover

CD

### CleanDrive

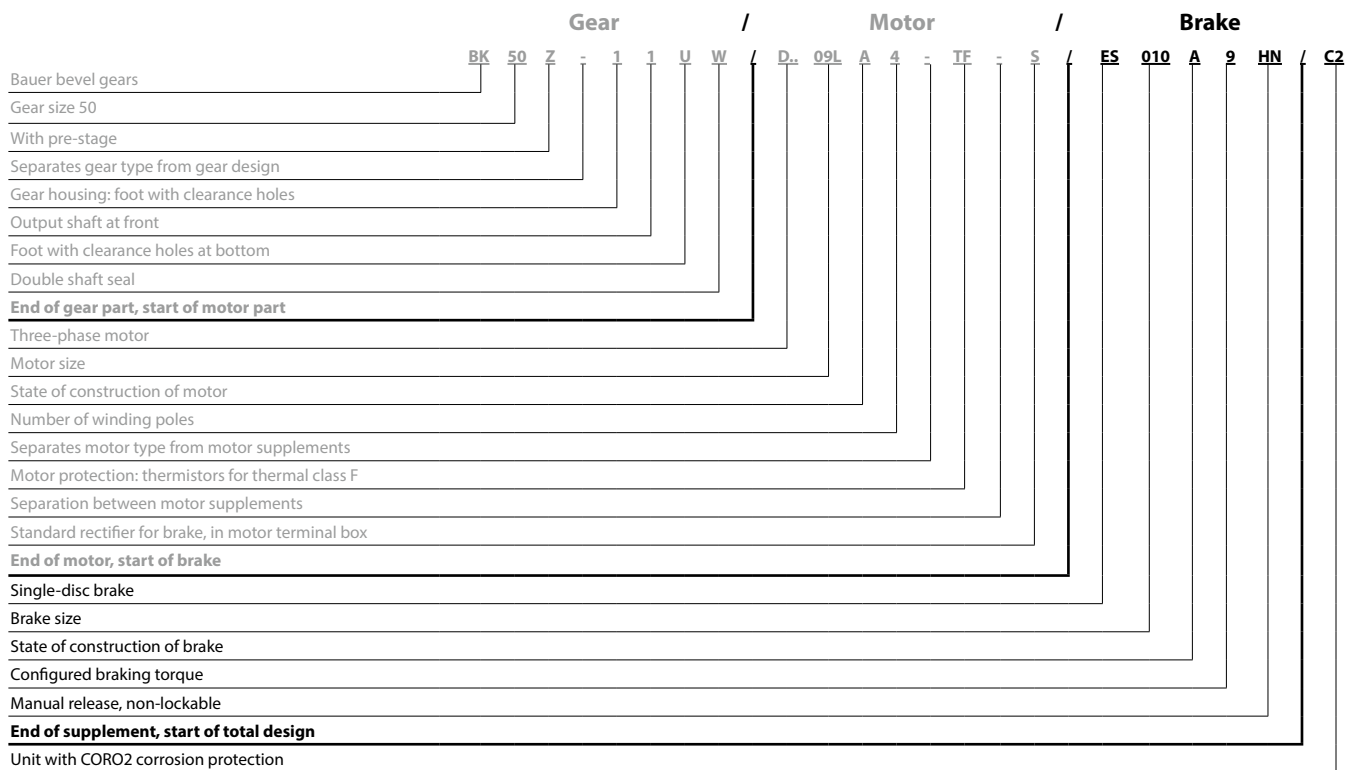
= Aseptic drive with cable



# Type Designations

## Motor & Motor options

3



### Brake

E	= Single-disc brake
ES	= Single-disc holding brake
EH	= Single-disc holding brake in heavy duty version
ZS	= Two-disc holding brake
ESX	= Single-disc service brake
EHX	= Single-disc service brake in heavy duty version
ZSX	= Two-disc service brake
... 010	= Brake size
... .. A	= Construction state
... .. . 9	= Code for configured braking torque
... .. . . HN	= Manual release (not lockable)
... .. . . HA	= Manual release (lockable)

### Reverse rotation block

RR	= Blocking direction clockwise
RL	= Blocking direction anticlockwise

### Digital and analogue encoder

G

### Second shaft end

ZW	= With key
ZV	= With square shaft

### Forced ventilation

FV

### Overall design

AV	= USA/Canada version with shaft dimensions in inches
AM	= USA/Canada version with metric shaft dimensions
UL	= US version
CS	= Canadian version
C1	= Coro1 corrosion protection
C2	= Coro2 corrosion protection
C3	= Coro3 corrosion protection
SP	= Non-catalog version

