

Data Sheet 10/68-2.40-EN

# Contrac power electronics

## Customer specific settings

**Order Information**

| Contrac Electronics   |  | Code |  |  |
|---|--|------|--|--|
| <b>Bus tag</b>  |  |      |  |  |
| No bus tag (Standard)   |  | /    |  |  |
| Bus tag HART / FSK Bus (max. 8 characters)  |  | 146  |  |  |
| Bus address fieldbus (max. 3 characters)  |  | 147  |  |  |
| <b>Torque / Force setting</b>   |  |      |  |  |
| 100 % torque / force to + direction (Standard)  |  | /    |  |  |
| 75 % torque / force to + direction  |  | 149  |  |  |
| 50 % torque / force to + direction  |  | 150  |  |  |
| 100 % torque / force to - direction   |  | /    |  |  |
| 75 % torque / force to - direction  |  | 152  |  |  |
| 50 % torque / force to - direction  |  | 153  |  |  |
| <b>Speed</b> (°/s - mm/s)   |  |      |  |  |
| Standard see data sheet of actuator   |  | /    |  |  |
| AUT speed + direction (.....)   |  | 154  |  |  |
| AUT speed - direction (.....)   |  | 155  |  |  |
| MAN speed (.....)   |  | 156  |  |  |
| Rapid traverse speed (.....)  |  | 157  |  |  |
| <b>Behaviour in 100 % end position</b>  |  |      |  |  |
| Keep toght with 1x rated torque / force (Standard)  |  | /    |  |  |
| Position dependent sw itch-off  |  | 161  |  |  |
| Limit for position dependent sw itch-off (.....) (perm. 80% ...100%)                                |  | 162  |  |  |
| Torque dependen sw itch-off w ith 1x rated torque / force   |  | 163  |  |  |
| Torque dependen sw itch-off w ith 2x rated torque / force   |  | 164  |  |  |
| <b>Behaviour in 0 % end position</b>  |  |      |  |  |
| Keep toght with 1x rated torque / force (Standard)  |  | /    |  |  |
| Position dependent sw itch-off  |  | 166  |  |  |
| Limit for position dependent sw itch-off (.....) (perm. 0% ...100%)                                 |  | 167  |  |  |
| Torque dependen sw itch-off w ith 1x rated torque / force   |  | 168  |  |  |
| Torque dependen sw itch-off w ith 2x rated torque / force   |  | 169  |  |  |
| <b>Breakaway with increased torque / force in end positions</b>                                     |  |      |  |  |
| No breakaw ay (Standard)  |  | /    |  |  |
| Breakaw ay in 0% end position   |  | 170  |  |  |
| Breakaw ay in 100% end position   |  | 171  |  |  |
| Breakaw ay in 0% and 100% end position  |  | 172  |  |  |
| Position to sw itch back to rated value (.....%) (perm. 0% ... 5%)                                  |  | 173  |  |  |
| <b>Close tight</b> (no positioning close to end position)   |  |      |  |  |
| Positioning close to end position (Standard)  |  | /    |  |  |
| Close tight   |  | 175  |  |  |
| Position limit to close tight (.....%) (perm. 1% ... 10% or 90% ... 99%)                            |  | 176  |  |  |
| <b>Digital input</b> (nicht verfügbar bei Kommunikation über Profibus DP)                           |  |      |  |  |
| OFF   |  | 177  |  |  |
| Manual override (Standard)  |  | /    |  |  |
| Rapid traverse mode   |  | 179  |  |  |
| Stepp controller commands   |  | 180  |  |  |
| <b>Digital output</b> (one signal each for 1 output; not available w ith Profibus DP communication) |  |      |  |  |
| BA1 (.....) ready for operation   |  | 181  |  |  |
| BA2 (.....) signal end position 0%  |  | 182  |  |  |
| BA3 (.....) signal end position 100%  |  | 183  |  |  |
| collective disturbance message  |  | 184  |  |  |
| collective alarm  |  | 185  |  |  |
| local operation   |  | 186  |  |  |
| signal limit 1; rising  |  | 187  |  |  |
| signal limit 1; falling limit = (.....%) (perm. % ... 10%; stand. 10%)                              |  | 188  |  |  |
| signal limit 2; rising  |  | 189  |  |  |
| signal limit 2; falling limit = (.....%) (perm. % ... 10%; stand. 90%)                              |  | 190  |  |  |
| hysteresis for 1 + 2 = (.....%) (perm. % ... 10%; stand. 90%)                                       |  |      |  |  |
| control of external rapid traverse motor (+ direction)  |  | 191  |  |  |
| control of external rapid traverse motor (- direction)  |  | 192  |  |  |

**Order Information**

| <b>Contrac Electronics</b>   |  |                              | Code             |  |  |
|--|--|------------------------------|------------------|--|--|
| <b>Set point selection</b>   |  |                              |                  |  |  |
| Analogue set point   | (not available with Profibus DP communication) |                              | /                |  |  |
| Digital set point  |  |                              | 211              |  |  |
| <b>Set point range</b> (not available with Profibus DP communication)                  |  |                              |                  |  |  |
| Set point start (standard: 4.0 mA)   | start < end                                    | ..... mA (perm. 0 ... 20 mA) | 212              |  |  |
| Set point end (standard: 20.0 mA)  | start > end                                    | ..... mA (perm. 0 ... 20 mA) | 213              |  |  |
| <b>Set point monitoring</b> (not available with Profibus DP communication)             |  |                              |                  |  |  |
| Without monitoring of analogue set point   | (standard)                                     |                              | /                |  |  |
| With monitoring of analogue set point  |  |                              | 215              |  |  |
| Upper limit  | ..... mA (perm. 20 ... 25 mA)                  |                              |                  |  |  |
| Lower limit  | ..... mA (perm. 1 ... 5 mA)                    |                              |                  |  |  |
| <b>Behaviour in case of set point or communication failure</b>                         |  |                              |                  |  |  |
| Locking in last position   | (standard)                                     |                              | /                |  |  |
| Positioning / closed loop control with last set point                                  |  |                              | 219              |  |  |
| Drive to safety position   |  |                              | 220              |  |  |
| Safety position: .....%  | (perm. 0 ... 100%)                             |                              | 221              |  |  |
| <b>Actual value range</b> (not available with Profibus DP communication)               |  |                              |                  |  |  |
| Actual value 4 ... 20 mA   | (standard)                                     |                              | /                |  |  |
| Actual value 0 ... 20 mA   |  |                              | 230              |  |  |
| <b>Failure message via actual value</b> (not available with Profibus DP communication) |  |                              |                  |  |  |
| No failure message via actual value  | (standard)                                     |                              | /                |  |  |
| Failure message via actual value "signal high"   |  |                              | 232              |  |  |
| Failure message via actual value "signal low"  |  |                              | 233              |  |  |
| Upper signal limit (standard 21.5 mA)  | ..... mA (perm. 20 mA ... 25 mA)               |                              | 234              |  |  |
| Lower signal limit (standard 3.5 mA)   | ..... mA (perm. 1 mA ... 5 mA)                 |                              | 235              |  |  |
| <b>Positioning loop monitoring</b>   |  |                              |                  |  |  |
| Positioning loop monitoring OFF  | (standard)                                     |                              | /                |  |  |
| Positioning loop monitoring ON   |  |                              | 237              |  |  |
| <b>Positioning / Controller</b>  |  |                              |                  |  |  |
| Operation as positioner  | (standard)                                     |                              | /                |  |  |
| Operation as process controller  |  |                              | 239              |  |  |
| conventional process controller operation  |  |                              | 240              |  |  |
| reciprocal process controller operation  |  |                              | 241              |  |  |
| no integrating end position behaviour  |  |                              | 242              |  |  |
| integrating end position behaviour   |  |                              | 243              |  |  |
| <b>Re-start behaviour</b>  |  |                              |                  |  |  |
| AUT after voltage recovery   | (standard)                                     |                              | /                |  |  |
| MAN after voltage recovery   |  |                              | 237              |  |  |
| <b>Rapid traverse</b>  |  |                              |                  |  |  |
| No rapid traverse  | (standard)                                     |                              | /                |  |  |
| Rapid traverse with servo motor  |  |                              | 418              |  |  |
| <b>Monitoring of process transmitter signal</b>  |  |                              |                  |  |  |
| Perm upper limit (standard 21.0 mA)  | ..... mA (perm. 20 mA ... 25 mA)               |                              | 246              |  |  |
| Perm lower limit (standard 21.0 mA)  | ..... mA (perm. 1 mA ... 5 mA)                 |                              | 247              |  |  |
| <b>Non-standard version</b> (standard: no remark)                                      |  |                              | 68-..... / ..... |  |  |
| Non-standard no of electronic unit   | .....  |                              | 248              |  |  |
| Non-standard no of actuator  | .....  |                              | 249              |  |  |

**Order Information**

|  |      |  |  |
|--|------|--|--|
| <b>Contrac Electronics</b>                               | Code |  |  |
| <b>Setpoint characteristic selection</b>                 |      |  |  |
| Linear (standard)  | /    |  |  |
| Equal percentage 25 %                                    | 223  |  |  |
| Equal percentage 50 %                                    | 224  |  |  |
| Programmable characteristic (see table below for values) | 225  |  |  |
| Split Range  | 226  |  |  |
| <b>Values for split range</b> (only with Code No. 226)   |      |  |  |
| Start value for split range                              | 227  |  |  |
| End value for split range                                | 228  |  |  |

**Attention!**

The pairs of values  
 0%/100% and 100% /  
 100% are pre-set.

All other entered values  
 for set point and actual  
 value must be higher than  
 the previous one.

|    | Set point [%] | Actual value [%] |
|----|---------------|------------------|
| 1  | 0%            | 0%               |
| 2  |               |                  |
| 3  |               |                  |
| 4  |               |                  |
| 5  |               |                  |
| 6  |               |                  |
| 7  |               |                  |
| 8  |               |                  |
| 9  |               |                  |
| 10 |               |                  |
| 11 |               |                  |
| 12 |               |                  |
| 13 |               |                  |
| 14 |               |                  |
| 15 |               |                  |
| 16 |               |                  |
| 17 |               |                  |
| 18 |               |                  |
| 19 |               |                  |
| 20 |               |                  |
| 21 |               |                  |
| 22 | 100%          | 100%             |







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3KXE181011R1001

10/68-2.40-EN.01.2011