Planning information SIMODRIVE 611

Planning sheet for calculating the DC link power P_{DC link}

| Axis des. | Order No. | of the motor | | | | n _{rated} [rpm] | <i>M</i> ₀ [Nm] | I _{rated} [A] | <i>I</i> ₀ (PS) [A] | P _{calcFDD} [kW] | ñ/n _{rated} | P_{calcFDD} ($\tilde{\textit{n}}/\textit{n}_{\text{rated}}$) [kW] |
|--|-----------------------------|-------------------------------------|--------|-------------------|---|-----------------------------|----------------------------|------------------------|-----------------------------------|---------------------------|----------------------|--|
| Range I for $P_{\text{calc FDD}}$ from 0 1.8 kW | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| | | | | | | | | | | Sum | Range I | |
| Range II for P _{calc FDD} from 1.8 8.8 kW | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| | | | | | | | | | | Sum F | Range II | |
| D | . III 6 D | f 0.0 27 | 1.347 | | | | | | | | | |
| Range | e III for P _{calc} | : FDD from 8.8 27 | KVV | | | | | | | | | |
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | Sum D | ange III | |
| | | | | K_{l} | | | | | | Sulli K | ange iii | |
| Sum Rai | nge I | | х | | - | | | | | | | |
| | | | | K_{II} | | | | + | | | | DC link power $P_{\text{DC link FDD}}$ |
| Sum Range II | | | х | | = | | | | | | x 1.1 = | kW |
| | | | | K_{III} | | | | + | | | | DC link power P _{DC link MSD} |
| Sum Range III | | | х | | = | | | | | | + | kW |
| onlication | | Spood ratio | Food | axes | | Simultanoi | itv | | | | | |
| oplication | | Speed ratio ñ/n _{rated} | for ea | axes ach range | | Simultanei factor K fo | or each | | | | | DC link power P _{DC link} |
| eed drives obot drives | | 0.4 0.7 0.9 1 | 1 2 | | | 1 0.63 | | | | | = | kW |
| ain spindle drives ith 1FT | | 1 | 3 4 | | | 0.5 0.38 | | | | | | |
| 11 1 | | | 5 | | | 0.33 0.28 | | | | | | |
| | | | 6 | | | 0.28 | | | | | | |