ISO 10303-517:2000-04 (E)

Industrial automation systems and integration - Product data representation and exchange - Part 517: Application interpreted construct: Mechanical design geometric presentation

Contents

Page

1 Scope 1
2 Normative references 2
3 Terms, definitions, and abbreviations 3
3.5 Abbreviations 5
4 EXPRESS short listing 5
4.1 Fundamental concepts and assumptions 7
4.2 aic_mechanical_design_geometric_presentation entity definitions 9
4.2.1 camera_image_3d_with_scale 9
4.2.2 draughting_pre_defined_colour 11
4.2.3 draughting_pre_defined_curve_font 11
4.2.4 mechanical_design_geometric_presentation_area 13
4.2.5 mechanical_design_geometric_presentation_representation 16
4.3 aic_mechanical_design_geometric_presentation function definition: aspect ratio 22
Annex A (normative) Short names of entities 24
Annex B (normative) Information object registration 25
B.1 Document identification 25
B.2 Schema identification 25
Annex C (informative) EXPRESS-G diagrams 26
Annex D (informative) Computer interpretable listings 41
Index 42
Figures Figure 1 Illustration of predefined curve fonts 13
Figure C.1 AIC expanded listing diagram in EXPRESS-G: 1 of 14 27
Figure C.2 AIC expanded listing diagram in EXPRESS-G: 2 of 14 28
Figure C.3 AIC expanded listing diagram in EXPRESS-G: 3 of 14 29
Figure C.4 AIC expanded listing diagram in EXPRESS-G: 4 of 14 30
Figure C.5 AIC expanded listing diagram in EXPRESS-G: 5 of 14 31
Figure C.6 AIC expanded listing diagram in EXPRESS-G: 6 of 14 32
Figure C.7 AIC expanded listing diagram in EXPRESS-G: 7 of 14 33
Figure C.8 AIC expanded listing diagram in EXPRESS-G: 8 of 14 34
Figure C.9 AIC expanded listing diagram in EXPRESS-G: 9 of 14 35

Figure C.10 AIC expanded listing diagram in EXPRESS-G: 10 of 14 36

Figure C.11 AIC expanded listing diagram in EXPRESS-G: 11 of 14 37

Figure C.12 AIC expanded listing diagram in EXPRESS-G: 12 of 14 38

Figure C.13 AIC expanded listing diagram in EXPRESS-G: 13 of 14 39

Figure C.14 AIC expanded listing diagram in EXPRESS-G: 14 of 14 40

Tables Table 1 RGB colours for predefined colours 12

Table 2 Line segment and space lengths for predefined curve fonts 13

Table A.1 Short names of entities 24